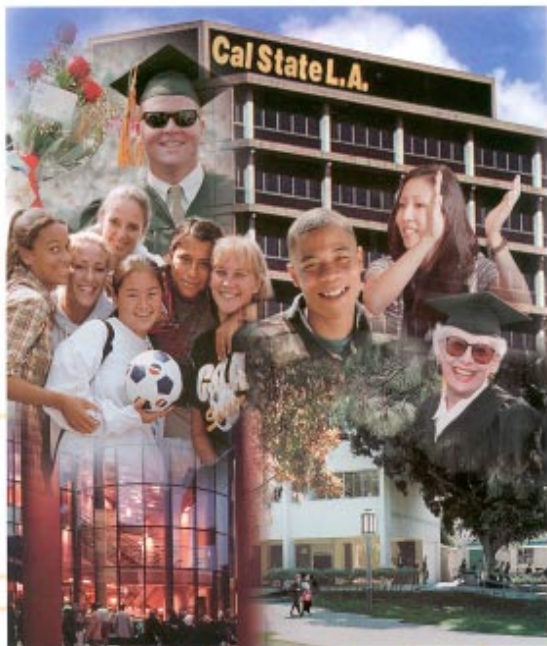




California State University, Los Angeles

1999-2001 University Catalog



The real world of opportunity...

Greetings from the President

Welcome to California State University, Los Angeles.

There is no asset more important to the process of learning than great teachers. Since its founding in 1947, Cal State L.A. has recruited a faculty of nationally and internationally honored experts, and continues to develop each student's potential with an excellent student-teacher ratio, individual attention in small classes, research opportunities, and team-building. Throughout these decades, our students' education has been enriched by a campus community with a wide range of interests, ages and cultures that mirrors the real world and produces graduates like math teacher Jaime Escalante, novelist Joseph Wambaugh, business leader Donald Sterling U.S. congresswoman Maxine Waters and astronaut Sam Durrance.

For over half a century, Cal State L.A. has been providing an educational foundation of critical thinking and problem-solving skills that has enabled our students to become today's leaders. Cal State L.A. continues to provide unlimited learning opportunities in a setting of academic excellence, so that our students are current and fluent in many "languages," whether it is the art and language of another people, the terminology of global politics and economics, or the vocabulary of the new technology.

The new century approaches at lightning speed. As the University enters its sixth decade, a new Cal State L.A. is poised to help you keep in step with-or one step ahead of-the rapidly changing world. I look forward to your many successes at Cal State L.A. and beyond.

*California State University,
Los Angeles*

**...committed to student-centered learning, free scholarly inquiry,
and academic excellence within a diverse multi-ethnic community.**

1999-2001 University Catalog

**5151 State University Drive
Los Angeles, California 90032**

www.calstatela.edu

(323) 343-3000

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In addition to meeting fully its obligations under federal and state law, Cal State L.A. is committed to creating a community in which a diverse population can live, work and learn in an atmosphere of tolerance, civility and respect for the rights and sensibilities of each individual, without regard to economic status, ethnic or cultural background, political views, sexual orientation, or other personal characteristics or beliefs,

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California State University, Los Angeles ...

the choice of these distinguished alumni and **120,000** others who are contributing to the future of our community and the world.

Joseph Wambaugh -
Novelist and author of 15 books, including *The Blue Knight*, *The Choirboys* and *The Onion field*.

Philip J. Quigley -
Retired vice chairman of SBC Communications Inc. and chairman, president and CEO of Pacific Telesis Group.

Billie Jean King -
International all-time tennis great, winner of 20 Wimbledon titles.

Donald Sterling -
Owner of the Los Angeles Clippers.

Lucille Roybal-Allard -
Congresswoman, U.S. House of Representatives.

Florence LaRue -
Vocalist and a member of the Grammy Award-winning singing group, The 5th Dimension.

Samuel Durrance -
NASA astronaut (Columbia and Endeavour), astrophysicist and educator.

Kent Twitchell -
Muralist whose giant figurative works can be seen on buildings throughout Los Angeles.

Michael Antonovich -
Member of the Los Angeles County Board of Supervisors.

Jaime Escalante -
Math educator, whose success was the basis for the movie *Stand and Deliver*.

Lee Baca -
Sheriff of Los Angeles county.

Sue Kunitomi Embrey -
Founder and chair, Manzanar Committee.

Michael S. Harper -
University professor at Brown University and first poet laureate of Rhode Island.

Roxanne V. Bercik -
Battalion Chief, Los Angeles Fire Department.

Thomas A. Nassif -
Chairman and CEO, Gulf International Consulting, Inc., and former ambassador to Morocco.

James Newton -
Noted jazz and classical flutist, composer and recording artist.

Fermin Cuza -
Senior vice president, international trade and worldwide government affairs, Mattel, Inc.

Mark Kroeker -
Middle East conflict resolution specialist, former LAPD deputy chief and UN. policing consultant in Bosnia.

Diane Watson -
California state senator.

Gerald Barnes -
Bishop of the Riverside/San Bernardino county diocese.

George Cotliar -
Past senior vice president and executive editor of the *Los Angeles Times*.

Lillian Kawasaki -
Director, department of environmental affairs for the City of Los Angeles.

Thomas V. McKernan, Jr. -
President and CEO of the Automobile Club of Southern California.

Ruben Zacarias -
Superintendent, Los Angeles Unified School District.

Billy Barty -
Actor, entertainer and little people's advocate.

John Huerta -
Chief legal counsel for the Smithsonian Institution.

Wesley Ru -
President and CEO of Western Badge and Trophy Company.

Manuel Mollinedo -
Zoo director, Los Angeles zoo.

AS a graduate of Cal State L.A., you're in distinguished company. Noted authors, athletes, artists, actors, CEOs, doctors, educators, engineers, health care providers, scientists, policy makers and leaders in many other fields chose Cal State L.A. because they were serious about making a sound investment in a quality education.

Directories

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Listed Alphabetically with Type of Program and Catalog Page Numbers

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Listed Alphabetically with Office and Telephone Numbers

4. Academic Department, Division and Program Offices

Listed by School including Names of Deans and Chairs

5. Other University Offices and Services

With Office and Telephone Numbers

6. Academic Schools, Departments, Divisions and Program Offices

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Directory 1

Index of Academic Degrees, Certificates and Programs

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Moderate/Severe Disabilities	Option, MA	Special Education	591
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Directory 2

Administrative Offices and Officers

Titles and Names Only

Officers of Administration

Office of the President

President of the University James M. Rosser
 University Legal Counsel James R. Lynch
 Director of Intercollegiate Athletics..... Carol M. Dunn

Academic Affairs

Provost and Vice President for Academic
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 Associate Vice President for Academic
 Affairs..... Andrew J. Winnick
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 Associate Director, CETL/Head, FITSC George F. Taylor
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 Program Kathleen Costantini
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 Director, University Tutorial Center Howard Masuda
 Director, University Writing Center John Edlund
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 Associate Dean Eri F. Yasuhara
 Dean, School of Business and Economics... G. Timothy Haight
 Associate Dean Hugh E. Warren (*Acting*)
 Dean, Charter School of Education..... Allen A. Mori
 Associate Dean, Curriculum and Assessment .. Kathryn Reilly
 Associate Dean, Student Services Jamie Dote-Kwan
 Dean, School of Engineering and
 Technology Raymond B. Landis
 Associate Dean Ethan B. Lipton
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 Dean, School of Natural and Social Sciences..... David L. Soltz
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 Director of American Culture and Language
 Program (ACLP)..... Sally Gardner

Director of Distance Learning (*Vacant*)
 Coordinator, ITFS Alice Gutierrez
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 Assistant Vice President, Financial Services Gary Murph
 University Controller Sri Renganathan
 Director, University Budgets Henry Soto
 Director, Student Financial Services..... Diane Paramo
 Executive Director, University Auxiliary
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 Director, Academic Technology Support Stephen K. Pollard
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 Manager, Desktop Services..... Colin Campbell
 Manager, User Services Christopher Kaufman

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 Assistant Vice President for University
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 Executive Director of Alumni Relations..... Randi Moore
 Executive Director of Publications/
 Public Affairs David F. McNutt
 Director of Public Information/Editorial
 Services Carol Selkin

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 Director, Summer Bridge David J. Godoy
 Coordinator, EPIC Jorge Uranga (*Acting*)
 Director, International Programs and
 Services..... Michael D. Fels

Director, and Chief Staff Physician, Student Health Center.....	Jeffrey Tipton, M.D.
Director, Educational Opportunity Program (EOP)	David Sandoval
Director, Office for Students with Disabilities	Tomás Vásquez
Assistant Vice President, Enrollment Management	Karl J. Beeler
Registrar	Joan V. Woosley
Director, Admissions and University Outreach	(vacant)
Associate Director, Admissions and University Outreach.....	George Bachmann
Admissions Officer	Cindy Leiby-Smith
Director, Center for Career Planning and Placement	Clemencia de Leon
Director, Center for Student Financial Aid.....	Vu Tran
Coordinator, University Orientation Program....	Vincent Lopez
Coordinator, Free Summer Quarter (FSQ+)....	Marie Ver Haar

Student Government

The Associated Students, Inc., an incorporated organization in which all students hold membership, is managed by a board of directors composed of elected student officers. This body formulates policy and handles the business affairs of the student body.

Commissions plan and direct student activities, including rallies, elections, tutorial projects, cultural activities, and general convocations. Public performances feature noted musicians, films and guest speakers. Students serve with representatives of the faculty and administration on academic committees, governing boards, and commissions. Through such membership students engage in development of policy and in planning and implementing activities such as publications and athletic programs.

Ambassadors for Higher Education

All Californians have a stake in maintaining a strong and accessible California State University system, in particular because the CSU educates 10% of the state's workforce -- including a majority of our teachers, computer scientists, engineers and business graduates. With three million newly created jobs expected over the next five years, California's thriving economy is dependant on quality graduates from the world's largest system of public higher education.

Cal State L.A. has formed two special groups to help promote public support for CSU through **Ambassadors for Higher Education**.

The **Executive Ambassadors** group is comprised of leaders from the CSULA Alumni and CSLA Foundation Boards as well as current and former elected officials who have enthusiastically supported Cal State L.A. in the past. These volunteers are uniquely qualified as ambassadors because of their long time association with Cal State L.A. and familiarity with campus issues. Members of the executive group who participated in the 1999 CSU Legislative Day in Sacramento include Cal State L.A. Foundation President Bob Adkins, Alumni Association President Linda Wah, Special Assistant for Community Relations Jack Smart and Mattel Vice President Fermin Cuza.

Also within the program are **Alumni Ambassadors**, comprised of alumni association members who have volunteered to be campus advocates. These ambassadors receive periodic special newsletters concerning statewide bond measures and other issues on which they might become advocates. Alumni

ambassadors also participate in campus visits by local elected officials.

The Cal State L.A. Alumni Association

The Alumni Association was formed in 1954 to provide official representation of the alumni in matters that affect the general welfare of the University. The association serves as a vital link between the University, its alumni and the greater Los Angeles community. Its primary purposes are to advance the University's interests, to enhance relationships among alumni, faculty, staff, and students, and to strengthen the contributions of alumni to the campus community. These goals are accomplished through many varied, ongoing activities and programs. The Cal State L.A. Alumni Association is a dues-paying membership organization open to alumni and friends of Cal State L.A.

Alumni Association Board of Directors

Executive Board

Linda W. Wah '85, '89	President
Ona Jones '71	President-elect
Frank M. Saito '79	Vice President for Finance
Tora M. Brown '93, '97	Vice President for Programs
Christine M. Gillett '61	Vice President for Membership

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Ronald A. Beldner '64	Darryl L. Lloyd '66
Esther I. Castruita '57	Neil A. Nilchian '84
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David Holman '74	Jeff Skolnik '74

Ex-Officio

Randi Moore	Executive Director of Alumni Relations
Kyle C. Button....	Vice President for Institutional Advancement
Judith Papenhausen.....	Faculty Representative
Hector Barajas.....	ASI Representative

Cal State LA Foundation

The Cal State L.A. Foundation was organized in 1985 as a 501(c)3 tax-exempt, nonprofit organization for the purpose of accepting charitable contributions to the University. The Foundation Board guides and advises the University administration and professional fund-raisers in securing donations of private funds for use in four areas: capital campaigns, scholarships and fellowships, endowed chairs and educational programming.

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Directory 3

Academic Department, Division and Program Offices

Listed Alphabetically with Office and Telephone Numbers

***When calling from off campus, dial area code 323, prefix 343, and the four-digit extension; from on campus, dial 3 and the four-digit extension.*

**Because of construction and renovation, some offices may be housed elsewhere temporarily; however, the phone numbers remain the same.*

Department, Division, Interdisciplinary Program	School	Location*	Phone**
Accounting, Department of	Business and Economics.....	ST F517.....	3-2830
Administration and Counseling Division of.....	Education.....	KH C1065.....	3-4250
Anthropology, Department of.....	Natural and Social Sciences.....	KH C4068.....	3-2440
Art, Department of.....	Arts and Letters	FA 328.....	3-4010
Asian and Asian-American Studies, Interdisciplinary Program in	Arts and Letters	MUS 232.....	3-4004
Athletics, Division of Intercollegiate.....	University.....	PE 102.....	3-3080
Biology and Microbiology, Department of	Natural and Social Sciences.....	BIO 142.....	3-2050
Business, Interdisciplinary Programs in	Business and Economics.....	SH C256B.....	3-2810
Chemistry and Biochemistry, Department of	Natural and Social Sciences.....	PS 616.....	3-2300
Chicano Studies, Department of.....	Natural and Social Sciences.....	KH C3101.....	3-2190
Child and Family Studies, Department of.....	Health and Human Services	FA 143.....	3-4590
Civil Engineering, Department of	Engineering and Technology	E&T A209.....	3-4450
Communication Disorders, Department of.....	Health and Human Services	KH B106D.....	3-4690
Communication Studies, Department of	Arts and Letters	MUS 104.....	3-4200
Criminal Justice, Department of	Health and Human Services	KH D1045.....	3-4610
Curriculum and Instruction, Division of.....	Education.....	KH C2097.....	3-4350
Economics and Statistics, Department of	Business and Economics.....	ST F917.....	3-2930
Educational Foundations and Interdivisional Studies, Division of	Education	KH C2098.....	3-4330
Electrical and Computer Engineering, Department of.....	Engineering and Technology	E&T A317.....	3-4470
English, Department of	Arts and Letters	E&T A604.....	3-4140
Entrepreneurship, Program in.....	Business and Economics.....	SH C256B.....	3-2810
Finance and Law, Department of.....	Business and Economics.....	ST F717.....	3-2870
Geography and Urban Analysis, Department of	Natural and Social Sciences.....	KH C4067.....	3-2220
Health Care Management, Program in	Business and Economics.....	ST F703.....	3-2890
Geological Sciences, Department of	Natural and Social Sciences.....	PS 216.....	3-2400
Health and Nutritional Sciences, Department of	Health and Human Services	FA 218A.....	3-4740
History, Department of.....	Natural and Social Sciences.....	KH C4066.....	3-2020
Information Systems, Department of.....	Business and Economics.....	ST F603.....	3-2983
Intercultural Proficiency, Interdisciplinary Program in	Health and Human Services	PE 237.....	3-4631
International Business, Program in	Business and Economics.....	SH C256B.....	3-2810
Kinesiology and Physical Education, Department of	Health and Human Services	PE 206.....	3-4650
Latin American Studies, Interdisciplinary Program in.....	Natural and Social Sciences.....	KH B3006.....	3-2180
Liberal Studies, Interdisciplinary Program in.....	Arts and Letters	E&T A634.....	3-4286
Management, Department of	Business and Economics.....	ST F717.....	3-2890
Marketing, Department of	Business and Economics.....	ST F917.....	3-2960

Department, Division, Interdisciplinary Program	School	Location*	Phone**
Mathematics and Computer Science, Department of.....	Natural and Social Sciences.....	ST F206.....	3-2150
Mechanical Engineering, Department of.....	Engineering and Technology.....	E&T A205.....	3-4490
Modern Languages and Literatures, Department of.....	Arts and Letters.....	KH D1054.....	3-4230
Music, Department of.....	Arts and Letters.....	MUS 145.....	3-4060
Natural Science, Interdisciplinary Program in.....	Natural and Social Sciences.....	PS 315.....	3-2100
Nursing, Department of.....	Health and Human Services.....	ST F417.....	3-4700
Pan-African Studies, Department of.....	Natural and Social Sciences.....	KH C3095.....	3-2290
Philosophy, Department of.....	Arts and Letters.....	E&T A429.....	3-4180
Physics and Astronomy, Department of.....	Natural and Social Sciences.....	PS 315.....	3-2100
Political Science, Department of.....	Natural and Social Sciences.....	E&T A523.....	3-2230
Psychology, Department of.....	Natural and Social Sciences.....	KH C3103.....	3-2250
Social Science, Interdisciplinary Program in.....	Natural and Social Sciences.....	KH C4066.....	3-2020
Social Work, Department of.....	Health and Human Services.....	KH C4069.....	3-4680
Sociology, Department of.....	Natural and Social Sciences.....	KH C3093.....	3-2200
Special Education, Division of.....	Education.....	KH C1064.....	3-4400
Technology, Department of.....	Engineering and Technology.....	E&T A341A.....	3-4550
Theatre Arts and Dance, Department of.....	Arts and Letters.....	KH 5104.....	3-4110
Women's Studies, Interdisciplinary Program in.....	Arts and Letters.....	E&T A634.....	3-4286
Youth Agency Administration.....	Health and Human Services.....	PE 237.....	3-4580

Directory 4

Academic Department, Division and Program Offices

Listed by School including Names of Deans and Chairs

** When calling from off campus, dial area code 323, prefix 343, and the four-digit extension; from on campus, dial 3 and the four-digit extension
* Because of construction and renovation, some offices may be housed elsewhere temporarily; however, the phone numbers remain the same.

Department/Division/Program	Program Coordinator Department /Division Chair	Location*	Extension**
Academic Affairs			
Provost and Vice President.....	Margaret J. Hartman	Adm 702	3-3800
Associate Vice President	Andrew J. Winnick	Adm 715	3-3810
Director, Center for Effective Teaching and Learning.....	Melva Irvin.....	Lib N 1014A	3-5444
Associate Director, CETL/Head, FITSC	George F. Taylor.....	FA 138 ..	3-5607
Assistant Vice President	Victor Ukpolo	Adm 715	3-3810
Dean, Undergraduate Studies	Alfredo G. Gonzalez.....	Adm 725	3-3830
Associate Dean.....	Virginia H. Hunter.....	Adm 725	3-3830
Director, University Academic Advisement Center.....	Kathleen Costantini.....	Lib S 1040A	3-3150
Director, Partnership in Academic Learning & Success.....	Diane Vernon.....	Lib S 1040A	3-3150
Director, Early Entrance Program	Richard Maddox.....	PS 510B	3-2287
Director, General Education Honors Program	Kathleen Costantini.....	Lib S 1040A	3-3150
Director, Student Support Program.....	Steve Teixeira	Lib S 1040C	3-3965
Director, University Testing Center	Sylvia Scott-Hayes.....	Lib S 2098.....	3-3160
Director, University Tutorial Center.....	Howard Masuda.....	Lib S 1062A	3-3971
Director, University Writing Center	John Edlund.....	Lib S 2098.....	3-5350
Dean, Graduate Studies and Research	Theodore J. Crovello.....	Adm 710	3-3820
Associate Dean.....	Costello Brown.....	Adm 710	3-3820
Director, Research and Sponsored Programs	Susan G. Steiner.....	Adm 301	3-5366
School of Arts and Letters			
Dean	Carl M. Selkin	Mus 229	3-4001
Associate Dean	Eri F. Yasuhara	Mus 232	3-4004
Advisement and Outreach Center	Connie Utterback	Mus 235	3-4015
Art	Joseph Soldate	FA 328	3-4013
Asian and Asian American Studies (<i>interdisciplinary program</i>)..	Eri F. Yasuhara	Mus 232	3-4004
Communication Studies	Judith Hamera	Mus 104	3-4200
English	Alfred Bendixen.....	E&T A604	3-4140
Liberal Studies (<i>interdisciplinary program</i>).....	Elena Glasberg	E&T A634	3-4286
Modern Languages and Literatures	Joseph Chrzanowski.....	KH D1054	3-4230
Music	H. David Caffey.....	Mus 145	3-4060
Philosophy	Sharon Bishop	E&T A429	3-4180
Theatre Arts and Dance.....	(Vacant).....	KH 5104.....	3-4110
Women's Studies (<i>interdisciplinary program</i>).....	Elena Glasberg	E&T A634	3-4100

Department/Division/Program	Program Coordinator Department /Division Chair	Location*	Extension**
School of Business and Economics			
Dean	G. Timothy Haight	ST F124	3-2800
Associate Dean for Academic Affairs	Hugh Warren (Acting)	ST F124	3-2800
Advisement Center - Graduate Division	Hugh Warren	SH C256B	3-5156
Advisement Center - Undergraduate Division	Linda Trevillian	SH C256B	3-5262
Accounting	Ralph Spanswick	ST F517	3-2830
Economics and Statistics	Kon Lai	ST F917	3-2930
Entrepreneurship (program)	Samantha Carrington	ST F808	3-2946
Finance and Law	Jean Loo	ST F717	3-2870
Health Care Management (program)	William Cordeiro	ST F703	3-2890
Information Systems	Doris Christopher	ST F603	3-2927
Interdisciplinary Programs in Business	Ronald L. Pierce	SH C256B	3-2810
International Business (program)	Ronald L. Pierce	SH C256B	3-2810
Management	Paul Washburn	ST F717	3-2890
Marketing	Shirley Stretch-Stephenson	ST F917	3-2960
Charter School of Education			
Dean	Allen A. Mori	KH D2069	3-4300
Associate Dean for Curriculum and Assessment	Kathryn Reilly	KH D2070	3-4303
Office of Associate Dean for Curriculum and Assessment		KH D2070	3-4303
Associate Dean for Student Services	Jamie Dote-Kwan	KH D2078	3-4320
Student Services Office		KH D2078	3-4320
Administration and Counseling	Raymond Hillis	KH C1065	3-4250
Curriculum and Instruction	Judith Washburn	KH C2097	3-4350
Educational Foundations and Interdivisional Studies	Fernando Hernandez	KH C2098	3-4330
Special Education	Diane Klein	KH C1064	3-4400
School of Engineering and Technology			
Dean	Raymond B. Landis	E&T A221	3-4500
Associate Dean	Ethan B. Lipton	E&T A237	3-4510
Resource and Advisement Center	Ram Manvi	E&T A334	3-4464
Civil Engineering	Young Kim	E&T A212	3-4450
Electrical and Computer Engineering	Helen Ryaciotaki-Boussalis	E&T A317	3-4470
Mechanical Engineering	Stephen Felszeghy	E&T A205	3-4490
Technology	Don Maurizio	E&T A341A	3-4550
School of Health and Human Services			
Dean	James J. Kelly	FA 133	3-4600
Associate Dean	Karen M. Johnson	FA 128	3-4602
Advisement and Outreach Center	Valerie C. Kehm	FA 238	3-5500
Applied Gerontology (<i>certificate program</i>)	Kim Miller	ST F120	3-4724
Child and Family Studies	Valerie C. Kehm	FA 143	3-4590
Child Maltreatment and Family Violence (<i>certificate program</i>)	Patricia Savich	KH B109AB	3-4696
Communication Disorders	Edward Klein	KH B106D	3-4690
Criminal Justice	Deborah Baskin	KH D1045	3-4610

Department/Division/Program	Program Coordinator Department /Division Chair	Location*	Extension**
School of Health and Human Services (cont'd)			
Health and Nutritional Sciences	Chick Tam.....	FA 218A.....	3-4740
Intercultural Proficiency (<i>certificate program</i>).....	Ruth R. Wu	PE 237	3-4631
Kinesiology and Physical Education	Janet C. Harris	PE 206	3-4650
Nursing	Judith Papenhausen	ST F417	3-4700
Social Work.....	Frederick Anderson.....	KH C4069	3-4680
Youth Agency Administration (<i>certificate program</i>).....	James Kallusky	PE 237	3-4580
School of Natural and Social Sciences			
Dean	David L. Soltz.....	KH D1052	3-2000
Associate Dean.....	Joseph Bragin.....	KH D1051	3-2005
Director of Curriculum and Instruction.....	Edward Malecki.....	KH D1051	3-2007
Student Advisement Center	Rosemarie Marshall.....	KH D1044	3-4689
Anthropology.....	Norman Klein	KH C4068	3-2440
Biology and Microbiology	Alan Muchlinski	Bio 142.....	3-2050
Chemistry and Biochemistry	Wayne R. Tikkanen.....	PS 616	3-2300
Chicano Studies.....	Lionel Maldonado.....	KH C3101	3-2190
Geography and Urban Analysis	Killian Ying	KH C4067	3-2220
Geological Sciences	Robert Stull	PS 216	3-2400
History.....	Daniel Crecelius.....	KH C4066	3-2020
Latin American Studies (<i>interdisciplinary program</i>).....	Marjorie Bray.....	KH B3006	3-2180
Mathematics and Computer Science	Michael Hoffman	ST F206	3-2150
Natural Science (<i>interdisciplinary program</i>)	Robert Carr	PS 315	3-2100
Pan-African Studies	Marjorie Bray (<i>Acting</i>).....	KH C3095	3-2290
Physics and Astronomy	Konrad Aniol	PS 315	3-2100
Political Science.....	Benjamin W. Smith.	E&T A523	3-2230
Psychology	Michael Roffe.....	KH C3103	3-2250
Social Science (<i>interdisciplinary program</i>).....	Choi Chatterjee	KH C4066	3-2020
Sociology	Delos H. Kelley	KH C3093	3-2200
Preprofessional Advisement			
Health-Related Programs	Rosemarie Marshall.....	Bio 143.....	3-2035
Health Science Programs (<i>Premedical, pre dental, preveterinary, prepharmacy, etc.</i>)	Genaro Lopez	Bio 258.....	3-2070
Prelegal Programs			
Department of Finance and Law	Maria Boss.....	ST F717	3-2870
Department of Philosophy.....	Sharon Bishop/Ann Garry	E&T A429	3-4180
Department of Political Science	Kenneth Wagner/Scott Bowman.	E&T A517	3-2230
Office of Continuing Education			
Dean	James J. Kelly (<i>Acting</i>)	Lib S 1084.....	3-4911
Associate Dean	(<i>Vacant</i>)	Lib S 1084.....	3-4908
Director, Administrative and Fiscal Operations	Leland Farley	Lib S 1084.....	3-4906
American Culture and Language Program (ACLP)			
Director	Sally Gardner.....	Lib N B524	3-4840
Assistant Director	Priscilla Taylor.....	Lib N B524	3-4840

Department/Division/Program	Program Coordinator Department /Division Chair	Location*	Extension**
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Office of Continuing Education (cont'd)

Professional Development

Director	James Antonich	Lib S 1073.....	3-5964
Program Coordinator.....	Peggy Neiman	Lib S 1073.....	3-4921

Extension/Special Sessions/Certificate Programs

Associate Director of Continuing Education Programs.....	Joann Edmond.....	Lib S 1072.....	3-4919
Coordinator, Continuing Education Programs.....	Robin Hall	Lib S 1083.....	3-4967

Distance Learning

Director	(Vacant)	KHC 160	3-4916
Coordinator	Alice Gutierrez	KH C160	3-4916

Outreach

Director	Gerda Govine	Lib S 1074.....	3-4922
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University Library

University Library	Douglas A. Davis	Lib N B537A.....	3-3950
Associate University Librarian	Margo Young	Lib N B529A.....	3-3950

** When calling from off campus, dial area code 323, prefix 343, and the four-digit extension; from on campus, dial 3 and the four-digit extension
 * Because of construction and renovation, some offices may be housed elsewhere temporarily; however, the phone numbers remain the same.

Directory 5

Other University Offices and Services

With Office and Telephone Numbers

**When calling from off campus, dial area code 323, prefix 343, and the four-digit extension; from on campus, dial 3 and the four-digit extension.

*Due to construction and renovation, some offices may be housed elsewhere temporarily; however, the phone numbers remain the same.

Office/Department or Service	Location *	Phone**
Academic Advisement		
Academic Advisement Center (<i>undeclared majors</i>)	LIB PW 1040A	3-3150
Business and Economics Advisement Center	SH C256B	
Graduate Division		3-5156
Undergraduate Division		3-2810
Charter School of Education Student Services Office	KH D2078	3-4320
Engineering and Technology Resource and Advisement Center	E&T A334	3-4464
Health and Human Services Advisement and Outreach Center	FA 238	3-5500
Natural and Social Sciences Student Advisement Center	KH D1044	3-4689
ACCESS Center And Network	Health Center 205	3-5173
Admissions and University Outreach	SA 101	3-3901
<i>(includes preadmission advisement and campus tours)</i>		
Alumni Relations	Student Union 430	3-4980
Alumni Association	Student Union 430	3-4980
School of Business and Economics Alumni Chapter	ST F124	3-2800
Associated Clinics	KH B119	3-4750
Associated Students, Inc.	Student Union 422	3-4780
Athletics, Intercollegiate	PE 102	3-3080
Bookstore, University Square	Student Union First Floor	3-2500
Campus Ministries	Housing Phase II	3-2571
Campus Operator	LIB N B16	3-3000
Campus Tours/Preadmission Counseling	SA 101	3-3178
Career Planning and Placement	Career Center	3-3237
Community Service Learning	SA 108	3-3102
Continuing Education (<i>Extension Programs, Special Sessions, Open University</i>)	LIB N 1084	3-4900
Child Care Center	Anna Bing Arnold Child Ctr	3-2470
Cooperative Education	Career Center	3-3283
Counseling (<i>personal</i>)	Health Center	3-3302
Credential Information	KH D2078	3-4320
Early Entrance Program (EEP)	FA 218-219	3-2287
Educational Opportunity Program (EOP)	SA 215	3-4367
Educational Participation in Communities (EPIC)	Career Center Basement	3-3380
Educational Placement	Career Center	3-3290
Enrollment Services	Adm 146	3-3900
Equity and Diversity, Office for	Adm 605	3-3040
Financial Aid, Student (<i>Center for Student Financial Aid</i>)	SA 124	3-1784
Graduate Studies and Research	Adm 710	3-3820
Health-Related Programs	Bio 143	3-2035
Health Sciences Advisement Center (<i>Premedical and other science fields</i>)	Bio 258	3-2070
Health Services	Health Center	3-3300
Honors Program, General Education	LIB PW 1040A	3-4960
Housing and Residence Life	Housing Complex	3-4800
Institutional Advancement	Adm 809	3-3060

Office/Department or Service	Location *	Phone**
Instructional Computing Laboratories		
Simpson Tower Annex Link.....	ST Annex E191	3-2595
E&T Computer Link.....	E&T A308.....	3-2586
Library Link.....	LIB PW 1039A	3-2579
Salazar Hall Link	SH C358	3-5364
Union Link	Student Union 301	3-2739
International Student Services	Adm 127.....	3-3170
Library (<i>Information</i>).....	LIB N First Floor.....	3-4927
Luckman Fine Arts Complex.....	TA 110B.....	3-6610
National Student Exchange	Adm 127.....	3-3170
Office for Students with Disabilities.....	SA 115	3-3140/(TDD) 3-3139
Orientation and First-Year Student Services, University	SA 117	3-3195
Performing Arts Box Office, School of Arts and Letters	Luckman Theatre	3-6600
Police, Campus.....	Bungalow C.....	3-3700
Publications/Public Affairs.....	Adm 802.....	3-3050
Records Office	Adm 409.....	3-3840
Registrar's Office	Adm 401.....	3-3840
Registration Office (<i>Enrollment Services</i>)	Adm 146.....	3-3900
Research and Sponsored Programs.....	Adm 301.....	3-5366
Scholarships	SA 118	3-3266
Student Financial Services (<i>Cashiers/Financial Aid Disbursements</i>).....	Adm 128.....	3-3630
Student Services Center	SA 101	3-3901
Study Abroad	Adm 127.....	3-3170
Testing Center	LIB PW 2097.....	3-3160
Travel Agency (<i>Council Travel</i>).....	Student Union First Floor	3-6250
Tutorial Center	LIB PW 1062A	3-3971
Undergraduate Studies	Adm 725.....	3-3830
University Development	Adm 809.....	3-3060
Vice President for Student Affairs	SA 108	3-3100
Veterans' Services	Adm 146.....	3-3948
Writing Center	LIB PW 2098.....	3-5350

CALL CAMPUS POLICE AT 9-1-1 FOR EMERGENCIES DURING WEEKENDS AND HOLIDAYS.

Directory 6

Academic Schools, Departments, Divisions and Program Offices

Listed Alphabetically with E-mail Addresses and Web Sites

University home page: www.calstatela.edu

NOTE- All E-mail addresses have a suffix of calstatela.edu which must be added after the E-mail address shown below. If the E-mail address shown ends in @cslanet the full suffix is @cslanet.calstatela.edu. Otherwise, the full suffix is: @calstatela.edu

All Website addresses begin with <http://> followed by the address shown. If either WWW or Web is not shown below then it is not part of the address (See departments and programs under the School of Natural and Social Sciences).

Department, Division, Interdisciplinary Program	E-mail Address	Website/URL
Accounting Dept.	rspansw@	www.calstatela.edu/academic/account/
Administration and Counseling Div.		www.calstatela.edu/csoe
Anthropology Dept.	anthro@	www.calstatela.edu/academic/anthro/
Art Dept.		www.calstatela.edu/academic/art/
Asian and Asian-American Studies Interdisciplinary Program	asianam@	www.calstatela.edu/academic/asianam/
Athletics Div. Intercollegiate	tarredo@cslanet	www.calstatela.edu/univ/athletic
Biology and Microbiology Dept.	biomicr@	www.calstatela.edu/Biology/index.htm
Business Interdisciplinary Programs	ltrevil@	www.sbelocalstatela.edu
Chemistry and Biochemistry Dept.	chmbioc@	chem.calstatela.edu/
Chicano Studies Dept.	chicano@	http://nss.calstatela.edu/chicano/index.htm
Child and Family Studies Dept.	cfsdept@	www.calstatela.edu/dept/chld_fa/index.htm
Child Abuse and Family Violence Institute	psavich@	
Civil Engineering Dept.	civileng@	www.calstatela.edu/academic/engr/tmp/et/civil/index.htm
Communication Disorders Dept.		www.calstatela.edu/dept/com_dis/index.htm
Communication Studies Dept.		www.calstatela.edu/academic/comstud/
Criminal Justice Dept.	dbaskin@	www.calstatela.edu/dept/crim_jus/index.htm
Curriculum and Instruction Div.		www.calstatela.edu/csoe
Economics and Statistics Dept.	klai@	www.calstatela.edu/academic/business/economics/index.html
Educational Foundations and Interdivisional Studies Div.		www.calstatela.edu/csoe/
Electrical and Computer Engineering Dept.		www.calstatela.edu/academic/engr/tmp/et/ee/index.htm
English Dept.	english@	www.calstatela.edu/academic/english/edeptwp/
Entrepreneurship Program	ltrevil@	www.calstatela.edu/academic/business/mktg/entrepre.htm
Finance and Law Dept.	jloo@	www.calstatela.edu/academic/aa/finance.htm
Geography and Urban Analysis Dept.	geog@	www.calstatela.edu/academic/geog
Geological Sciences Dept.	geology@	www.calstatela.edu/dept/geology/
Health and Nutritional Sciences Dept.	ctam@cslanet	www.calstatela.edu/dept/hnut_sci/index.htm
Health Care Management Program		www.calstatela.edu/academic/business/hcm/hcm.htm
History Dept.	history@	www.calstatela.edu/academic/history/index.htm

Department, Division, Interdisciplinary Program	E-mail Address	Website/URL
Information Systems Dept.	dchrist@	www.calstatela.edu/academic/aa/cmp_info.htm
Intercultural Proficiency Interdisciplinary Program	aleija@	www.calstatela.edu/dept/icp/index.htm
International Business Program	ltreuil@	www.calstatela.edu/academic/business/mktg/intlbus.htm
Kinesiology and Physical Education Dept.	kpedept@	www.calstatela.edu/dept/pe/index.htm
Latin American Studies Interdisciplinary Program	las@	www.calstatela.edu/academic/LAS
Liberal Studies Interdisciplinary Program	librlst@	www.calstatela.edu/academic/aa/lib_stud.htm
Management Dept.	pwashbu@	www.calstatela.edu/dept/mgmt/index.html
Marketing Dept.	ssstretc@	www.calstatela.edu/academic/business/mktg/mktgdptm.htm
Mathematics and Computer Science Dept.	mathcs@	www.calstatela.edu/academic/math_cs/
Mechanical Engineering Dept.	mechengr@	www.calstatela.edu/academic/engr/tmp/et/me/index.htm
Modern Languages and Literatures Dept.	modlang@	www.calstatela.edu/academic/mld/mainpa1.htm
Music Dept.	music@	www.calstatela.edu/academic/music
Natural Science Interdisciplinary Program	natsci@	http://nss.calstatela.edu/naturalscience/index.htm
Nursing Dept.	nursing@cslanet	www.calstatela.edu/dept/nursing/index.htm
Pan-African Studies Dept.	pas@	http://nss.calstatela.edu/pas/index.htm
Philosophy Dept.	philos@	www.calstatela.edu/dept/phil/
Physics and Astronomy Dept.	physics@	www.calstatela.edu/dept/physics/phys_ast.htm
Political Science Dept.	polisci@	www.calstatela.edu/dept/pol_sci/index.htm
Psychology Dept.	psych@	www.calstatela.edu/academic/psych/html/deptmenu.htm
Roybal Institute of Applied Gerontology	jlambri@	
Social Science Interdisciplinary Program	History@	http://nss.calstatela.edu/socialscience/index.htm
Social Work, Dept.	fanders@cslanet	www.calstatela.edu/dept/soc_work/index.htm
Sociology Dept.	sociol@	http://nss.calstatela.edu/soc/index.htm
Special Education Div.		www.calstatela.edu/csoe
Technology Dept.	Tech@	www.calstatela.edu/academic/engr/tmp/et/tech/
Theatre Arts and Dance Dept.	thtrdnc@	www.calstatela.edu/academic/aa/ta_danc.htm
Women's Studies Interdisciplinary Program	librlst@	www.calstatela.edu/academic/aa/lib_stud.htm
Youth Agency Administration	jkallus@	www.calstatela.edu/dept/yth_age/

School	E-mail Address	Website/URL
School of Arts and Letters	artslet@	www.calstatela.edu/academic/al/
School of Business and Economics	deansbe@	sbela.calstatela.edu
Graduate programs	mhokans@	sbela.calstatela.edu/sbe/graduate/index.htm
MBA program	avaidya@	www.calstatela.edu/academic/business/sbe/mba/index.htm
Charter School of Education		www.calstatela.edu/csoe
School of Engineering and Technology	et@	www.calstatela.edu/academic/engr/tmp/et/
School of Health and Human Services	jkelly@	www.calstatela.edu/academic/hhs/
School of Natural and Social Sciences	nss@	nss.calstatela.edu
Bridges to the Future program	brtobac@	
Los Angeles Basin Bridges to the Ph.D.	brtophd@	chem.calstatela.edu/Department/Grants_Vault/PhDProgram.html
Center for Environmental Analysis—Centers for Research Excellence in Science and Technology	ceacrest@	http://cea-crest.calstatela.edu/
Center for Spatial Analysis and Remote Sensing C-SARS	csars@	csars.calstatela.edu
Minority Biomedical Research Support Program MBRS	mbrs@	chem.calstatela.edu/Department/Grants_Vault/MBRSIntro.html
Minority Access to Research Careers Program MARC	marc@	chem.calstatela.edu/Department/Grants_Vault/MARCInfo2.html
Consortium for Undergraduate Research Experience CURE	cure@	quasar.calstatela.edu/CURE/
Los Angeles Collaborative for Teacher Excellence Program LACTE	lacte@	vearthquake.calstatela.edu/LACTE/
Office of Continuing Education	jshean@	www.calstatela.edu/cont_ed/index.htm
University Library	terrimy@cslanet	www.calstatela.edu/library

Catalog Information and Basic University Policies

The Catalog

The University's *General Catalog* is prepared in the Office of the Associate Vice President for Academic Affairs, which has overall responsibility for structure, layout, and editing, in collaboration with the Office of Undergraduate Studies and the Office of Publications/Public Affairs. Production support, layout, and integration were by Robert Allen. Special assistance was provided by Margarita Chavez and Kathy Numoto. Special acknowledgements are due the following for their contributions: Virginia Hunter, Associate Dean of Undergraduate Studies, for curriculum expertise and editorial assistance; Publications/Public Affairs, for cover artwork, photographs, and the color viewbook section; James Antonich for editing and production support, especially regarding faculty lists; Linda Trevillian for editing and developing the index; Lac Rios, Reprographics, for design and typesetting of title pages, tables, and grids; Edward Fisher, Academic Affairs Administration, for developing the academic calendars and directories; and Michael O'Neal-Peterson for providing software assistance. Information contained in this issue is revised to July 1, 1999.

The catalog may be purchased in person or ordered by mail from the University Bookstore. The price, established under regulations of the Board of Trustees of the California State University, is \$7.00. To order by mail, call the University Bookstore, (323) 343-2500, to obtain the cost for mailing. Send a request with check or money order to cover the cost of the catalog and mailing to: California State University, Los Angeles, Attention: University Bookstore, 5153 State University Drive, Los Angeles, CA 90032-8734.

Changes in Rules and Policies

Although every effort has been made to ensure the accuracy of the information in this catalog, students and others who use the catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, new or revised rules and policies adopted by the Board of Trustees of The California State University, by the Chancellor or designee of The California State University, or by the President or designee of the institution. Further, it is not possible in a publication of this size to include all of the rules, policies, and other information that pertain to the students, the institution, and The California State University. More current or complete information may be obtained from the appropriate department, division, school, or administrative office, or in the *Schedule of Classes*.

Nothing in this catalog shall be construed as, operate as, or have the effect of, an abridgement or a limitation of any rights, powers, or privileges of the Board of Trustees of The California State University, the Chancellor of The California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies that apply to students. Students are bound at any given time by the laws, policies, and rules then in effect, regardless of any errors or differences in this catalog to the contrary.

This catalog does not constitute a contract or the terms and conditions of a contract between the student and the institution or The California State University. The relationship of the student to the institution is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the President, and their duly authorized designees.

Nondiscrimination Policy

California State University, Los Angeles affirms its commitment to equality of opportunity for all individuals. This commitment requires that no person shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity of the University on the basis of race, color, religion, national origin, sex, sexual orientation, marital status, pregnancy, age, disability, disabled veteran's or Vietnam era veteran's status, or any other classification that precludes a person from consideration as an individual. This policy is in accord with Title VIII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, as amended, Sections 503 and 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and related administrative regulations and executive orders. Inquiries concerning the application of Titles VII and IX, Sections 503 and 504, and other nondiscrimination laws may be referred to the Office for Equity and Diversity, phone (323) 343-3040, the campus office assigned the administrative responsibility of reviewing such matters. Title VII and IX inquiries may also be directed to the Regional Director of the Office for Civil Rights, Region IX, Old Federal Building, 50 United Nations Plaza, Room 239, San Francisco, CA 94102.

Compliance with Americans with Disabilities Act (ADA)

California State University, Los Angeles does not discriminate on the basis of disability in admission to, access to, or operation of its instruction, programs, services, or activities, or in its hiring and employment practices. The University provides reasonable accommodation to facilitate the participation of covered individuals with disabilities.

*(Please see the **Procedures and Regulations** chapter for details.)*

Sexual Harassment Policy

California State University, Los Angeles will take action to prevent and eliminate sexual harassment, as mandated by Chancellor's Executive Order No. 345. Sexual harassment is conduct subject to disciplinary action, including termination. Sexual harassment includes but is not limited to:

- Unwanted sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature.
- Any act that contributes to a workplace or learning environment that is hostile, intimidating, offensive, or adverse to persons because of the sexual nature of the conduct.

- Conditioning an act, decision, evaluation, or recommendation on the submission to or tolerance of any act of a sexual nature.

Although this policy focuses on the treatment of persons lacking or holding lesser authority by persons possessing greater authority, it does not preclude the possibility that sexual harassment may also be perpetrated by persons lacking or holding lesser authority, e.g., employees, students, or applicants. In determining whether conduct constitutes sexual harassment, the circumstances surrounding the conduct are considered.

The prohibition against sexual harassment applies to all transactions of University business, whether on or off campus.

Individuals with supervisory authority are responsible for reporting a formal complaint about sexual harassment to a designated complaint investigator. Failure to do so may lead to appropriate administrative action.

For questions regarding sexual harassment, contact the Office for Equity and Diversity, Administration 605, (323) 343-3040.

Procedures for Reporting Sexual Harassment

Specific rules and procedures for reporting charges of sexual harassment and for pursuing available remedies are available in the following locations: Human Resource Management/Office for Equity and Diversity, Administration 605; Office of the Vice President for Student Affairs, Student Affairs 108.

Campus Nonviolence Policy

California State University, Los Angeles is committed to creating and maintaining a working, learning, and social environment for all members of the University community that is free from violence.

Civility, understanding, and mutual respect toward all members of the University community are intrinsic to excellence in teaching and learning, to the existence of a safe and healthful workplace, and to maintenance of a campus culture and environment that serves the needs of its many constituencies. Threats of violence or acts of violence not only impact the individuals concerned, but also the mission of the University to foster higher education through open dialogue and the free exchange of ideas. The University prohibits and will take decisive action to eliminate verbal harassment, violent acts, threats of violence, or any other behavior which by intent, action, or outcome harms another person. Such conduct is subject to disciplinary action up to and including dismissal from employment, expulsion from the University, or civil or criminal prosecution as appropriate.

The University has no tolerance for violence against and by members of the University community. To fulfill this policy, the University will work to prevent violence from occurring and will ensure that federal and state laws, as well as University regulations prohibiting violence, are fully enforced. In determining whether conduct constitutes a credible threat or act of violence, the circumstances surrounding the conduct will be considered.

Established University faculty, staff, and student and Department of Public Safety procedures will serve as mechanisms for resolving situations of violence or threats of violence. Each allegation of violence or threat of violence will be taken seriously. Individuals are encouraged to report acts

of violence, threats of violence, or any other behavior which by intent, act or outcome harms another person.

Consensual Sexual Relations Between Faculty and Students

“Sexual relations between students and faculty members with whom they also have an academic or evaluative relationship are fraught with the potential for exploitation. The respect and trust accorded a professor by a student, as well as the power exercised by the professor in an academic or evaluative role, make voluntary consent by the student suspect. Even when both parties initially have consented, the development of a sexual relationship renders both the faculty member and the institution vulnerable to possible later allegations of sexual harassment in light of the significant power differential that exists between faculty members and students.

“In their relationships with students, members of the faculty are expected to be aware of their professional responsibilities and avoid apparent or actual conflict of interest, favoritism, or bias.” *

It is unprofessional conduct for a faculty member to engage in any sexual relationship with a student while he or she is enrolled in that faculty member's class, or if a faculty member is acting in any other capacity that may directly affect the student's academic career.

Failure to follow these standards will be grounds for investigation or disciplinary action.

** The language in quotation marks is from the Statement adopted by the 81st Annual Meeting of the A.A.U.P.*

Immigration Requirements for Licensure

Students who will require a professional or commercial license provided by a local, state or federal government agency in order to engage in an occupation for which the California State University may be training them must meet the immigration requirements of the new *Personal Responsibility and Work Opportunity Reconciliation Act* (California Public Law 104-193, which is also known as the *Welfare Reform Act*) in order to receive licensure. Information concerning this regulation is available from Alois Green, Immigration Counselor, in the International Student Services Office, (323) 343-3170.

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and California Education Code, Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to records maintained by the campus and the release of such records. Please see Appendix E in this catalog for details.

Familiarity with the Institution's rules and regulations published in this catalog shall be the responsibility of each student and faculty member, and of those administrative offices concerned with academic matters.

ACADEMIC CALENDAR

Calendar with Class Dates and University Holidays

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<p>Dates in <i>bold italics</i> type are class days</p> <p><u>Underlined</u> dates are holidays (all campus offices closed)</p>	<p>JUNE</p> <table border="0"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td></td></tr> <tr><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td></td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td></td></tr> <tr><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S				1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19		20	21	22	23	24	25	26		27	28	29	30					<p>JULY</p> <table border="0"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td></tr> </table>	S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	<p>AUGUST</p> <table border="0"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																																		
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ACADEMIC CALENDAR

Key Dates: Summer, 1999 through Fall, 2001

SUMMER QUARTER 1999

June 21 Summer quarter; classes begin
 July 4-5 Independence Day; campus closed
 August 30-September 4 Final examinations
 September 5-22 Student recess
 September 6 Labor Day; campus closed

FALL QUARTER 2000

September 21 Fall quarter; classes begin
 October 9 Columbus Day; campus open
 November 11 Veterans' Day; campus open
 November 23-25 Thanksgiving holidays; campus closed
 December 4-9 Final examinations
 December 10-January 1 Student recess
 December 18-25 Winter holidays; campus closed

FALL QUARTER 1999

September 23 Fall quarter; classes begin
 October 11 Columbus Day; campus open
 November 11 Veterans' Day; campus open
 November 25-28 Thanksgiving holidays; campus closed
 December 6-11 Final examinations
 December 12-January 2 Student recess
 December 20-25 Winter holidays; campus closed

WINTER QUARTER 2001

January 1 New Year's Day; campus closed
 January 2 Winter quarter; classes begin
 January 15 Martin Luther King, Jr.'s birthday;
 campus closed
 February 12 Lincoln's birthday; campus open
 February 16 Presidents' Day observed; campus closed
 February 22 Washington's birthday; campus open
 March 13-17 Final examinations
 March 18-25 Student recess

WINTER QUARTER 2000

January 1 New Year's Day; campus closed
 January 3 Winter quarter; classes begin
 January 17 Martin Luther King, Jr.'s birthday; campus closed
 February 12 Lincoln's birthday; campus open
 February 18 Presidents' Day observed; campus closed
 February 22 Washington's birthday; campus open
 March 13-18 Final examinations
 March 19-26 Student recess

SPRING QUARTER 2001

March 26 Spring quarter; classes begin
 April 20 Honors Convocation
 May 28 Memorial Day; campus closed
 June 4-9 Final examinations
 June 9 Commencement
 June 10-17 Student recess

SPRING QUARTER 2000

March 27 Spring quarter; classes begin
 April 21 Honors Convocation
 May 29 Memorial Day; campus closed
 June 5-10 Final examinations
 June 10 Commencement
 June 11-18 Student recess

SUMMER QUARTER 2001

June 18 Summer quarter; classes begin
 July 4 Independence Day; campus closed
 September 3 Labor Day; campus closed
 August 27-September 1 Final examinations
 September 2-19 Student recess
 September 3 Labor Day; campus closed

SUMMER QUARTER 2000

June 19 Summer quarter; classes begin
 July 4 Independence Day; campus closed
 August 28-September 2 Final examinations
 September 3-20 Student recess
 September 4 Labor Day; campus closed

FALL QUARTER 2001

September 20 Fall quarter; classes begin
 October 12 Columbus Day; campus open
 November 11 Veterans' Day; campus open
 November 22-24 Thanksgiving holidays; campus closed
 December 3-8 Final examinations
 December 9-January 6 Student recess
 December 24-28 Winter holidays; campus closed

The University

The Campus Setting

The Mission of the University

The Faculty

The Academic Year/Quarter System

University Assessment Activities

Accreditation

Affiliations

John F. Kennedy Memorial Library

Information Resources Management

International Programs

Continuing Education

Reserve Officer Training Programs

L.A. County High School for the Arts

The Alumni Association

The Speech-Language and Hearing Clinics

Research, Scholarship and Supporting Services

Cal State L.A. University Auxiliary Services, Inc.

Endowed Chairs

Presidential Centers, Institutes and Bureaus

Consortia

The University

California State University, Los Angeles, founded in 1947 by action of the California State Legislature, is a comprehensive university that offers programs of higher education in more than 50 academic and professional fields. The University is organized into six schools that house nearly 50 academic departments and divisions. Cal State L.A.'s reputation as a center of learning attracts students from all areas of the United States and from many foreign countries. About one quarter of the campus' nearly 20,000 students are engaged in postbaccalaureate study in programs leading to master's and doctoral degrees; teaching, service, and specialist credentials; certificates; and other types of programs that prepare them for professional advancement.

The Campus Setting

Located at the eastern edge of the city of Los Angeles, adjacent to the western San Gabriel Valley cities of Alhambra and Monterey Park, Cal State L.A. occupies nearly 200 acres on a hilltop site that affords views of the mountains to the north, the San Gabriel Valley to the east, metropolitan Los Angeles to the west, and the Palos Verdes Peninsula and Catalina Island to the south. Ample parking facilities are available, and public transportation to and from campus is excellent. Cal State L.A.'s Metrolink commuter train station, the only one on a college campus, makes the University accessible to students, faculty and staff from as far as San Bernardino, Oxnard, Lancaster, and Oceanside. Buses and trains provide direct service to more than 35 communities in the San Gabriel Valley and to other nearby Los Angeles communities. The Los Angeles Civic Center, with numerous historical and cultural attractions, is five miles west of the campus. Industrial and business centers and several major shopping centers are located nearby. Popular mountain and desert resorts are within a two-hour drive, and beaches are less than an hour away by car.

The campus is nestled among rolling hills on a site that once housed one of California's 36 original adobes, built in 1776 by Franciscan missionaries and destroyed by fire in 1908. These lands once were part of a Spanish land grant known as the Rancho Rosa Castilla, created by the family of Juan Batista Batz, a Basque rancher from northern Spain who settled here in the 1850s. The inspiration for the name of the rancho, according to local historians, was the wild rose that once grew near the ranch home. The main drive through the campus is known as Paseo Rancho Castilla, in acknowledgment of our historic heritage.

The academic character of the University is reflected in the contemporary design of its physical facilities. The general campus is planned in such a way that it will permanently retain a spacious, open atmosphere, created by landscaped plazas and courts integrated with contemporary concrete, brick, and glass buildings. Surrounding hillsides and parking areas are extensively planted with a variety of trees, shrubs, and ground covers that further embellish the park-like environment of the campus. From 1947 to 1955, Cal State L.A. was situated on the campus of Los Angeles City College and shared its facilities. In 1956, construction began on the present site, and in 1958, ten newly constructed permanent buildings were first occupied. The University later went through another major phase of master plan development that included a new administration building, major additions to several existing classroom buildings, construction of two new

classroom buildings with underground parking structures, relocation and expansion of the Student Health Center, and the addition of a modern University-Student Union.

A third phase of construction saw the completion of projects that include parking facilities for more than 2,700 cars; an excellent, attractively landscaped road access system; major remodeling of the south wing of the Fine Arts building; completion of the Anna Bing Arnold child care center; and of garden style apartments that provide on-campus housing for more than 1,000 students.

In 1994, the University opened the Harriet and Charles Luckman Fine Arts Complex, the campus' new northern gateway. An architectural tour-de-force, the buildings house a large theatre and visual arts gallery. In 1996-98, the renovation and seismic retrofitting of a number of buildings, including the John F. Kennedy Memorial Library, was completed; a thermal energy storage unit was constructed to provide environmentally-sound heating and cooling to campus buildings; a new parking structure was built adjacent to the Luckman Fine Arts Complex; and the University-Student Union was completely renovated.

Currently, the Engineering and Technology building is undergoing a \$31 million dollar renovation and upgrade, and plans and funding have been approved for the renovation of the Music and Physical Science buildings. A total of 22 permanent buildings, not counting student housing, now stand on a plateau that serves as a refreshing oasis in the center of the Los Angeles region.

The Mission of the University

California State University, Los Angeles has one of the most diverse student populations of any college or university in the nation. Building on the strengths of this rich diversity, our University prepares students for success in advanced studies, in their careers, and throughout their lives. Cal State L.A. graduates constitute a major leadership force in greater Los Angeles, a microcosm of the global society.

The University is committed to free scholarly inquiry, to high-quality teaching, and to academic excellence in undergraduate, graduate, and other postbaccalaureate and continuing education programs. This commitment underlies strong educational programs that are sensitive to the needs of the University's unique, diverse student body. These programs include research, scholarship, creative activity, and community service. With the support of the administration, staff, alumni, and community, highly qualified faculty are the keystone of the University and the basis for the excellence of our programs.

A comprehensive university, California State University, Los Angeles offers a broad range of liberal arts and professional programs designed to encourage student excellence, achievement and well-being. Facilitated by close interaction between faculty and students, educational programs are designed to foster habits of disciplined inquiry and critical thinking while helping students master a body of knowledge. The University strives to promote understanding of, and respect for, diversity and to serve the changing needs of a global society. Recognizing its commitment to teaching, research, scholarship, creative activities, and service, the University supports an effective library and the use of new

technologies that enrich the instructional process and provide effective access to information in its various forms.

The University is committed to providing students a balanced and well-rounded educational experience, including co-curricular activities that contribute to personal enrichment, leadership development, and institutional pride. Student organizations, campus residence life, artistic events, multicultural events, intercollegiate athletics, and intramurals are designed to be a significant part of this experience.

The close proximity of the University to civic, cultural, and economic centers enables it to foster strong cooperative relationships with alumni, community, business, scientific, educational, cultural, and governmental constituencies. Partnerships with these constituencies will continue to grow for the mutual enhancement of academic programs and the community.

California State University, Los Angeles is committed to fostering collegial relationships among faculty, administration, students, and staff. The principles of academic freedom and professional ethics are the responsibility of the entire academic community. We take pride in our continuing evolution as the University that serves the greater Los Angeles Basin.

The Faculty

The reputation Cal State L.A. enjoys as an institution of higher learning is creditable largely to the quality of the faculty and their commitment to teaching and scholarship. Virtually all of Cal State L.A.'s faculty have earned the highest degree in their field, most often a Ph.D., from leading universities throughout the world. The faculty are nationally and internationally recognized scholars and artists. They include the first United States Presidential Award recipient in Science, Mathematics and Engineering Mentoring and 12 faculty members honored with CSU Outstanding Professor Awards—more than any other university in the 23-campus system. Their achievements in their academic fields of specialization make them eminently qualified to teach students who possess a variety of academic interests.

The faculty's high regard for scholarship is evidenced by its continuing participation in scholarly study, research, and creative efforts. Proof of commitment to teaching is found in the fact that senior faculty members regularly teach introductory courses in their disciplines and assume responsibility for academic and career advisement of students majoring in their departmental and divisional programs. Close student-faculty ties develop further through campus organizations and in University committees, on which students may serve as voting members.

The Academic Year/Quarter System

Cal State L.A. operates year around on the quarter system. Four quarters, each 11 weeks in duration, comprise the academic year. The summer quarter is a regular academic quarter, equal in all respects to the other three quarters. Students may maintain normal academic progress by full-time attendance during any three quarters of each year. Classes are scheduled weekdays from 7 a.m. until 10 p.m. and on Saturdays to serve the needs of full-time, part-time, and working students.

University Assessment Activities

To determine if the mission, goals, and objectives of the institution are being attained, it is necessary to assess

students, faculty, staff, alumni, and persons who come in direct or indirect contact with the University. Therefore, members of the learning community, visitors to the campus, employers of our graduates, and individuals from the surrounding community may be included in a wide array of ongoing assessment efforts. The process for assessing academic and co-curricular programs on campus includes self-studies and external reviews. All individuals are encouraged to willingly participate and provide accurate information that will contribute to these assessment efforts.

Accreditation

Since 1954, California State University, Los Angeles has been fully accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC), P.O. Box 9990, Mills College, Oakland, CA 94613-9990, (510) 632-5000. The University's credential programs are approved by the California Committee on Accreditation. Professional degree programs offered, and the national societies and associations that accredit these programs are listed below:

Art

National Association of Schools of Art and Design (NASAD)
11250 Roger Bacon Drive, Suite 21, Reston, VA 20190
(703) 437-0700

Audiology (graduate)

American Speech-Language-Hearing Association (ASLHA)
10801 Rockville Pike, Rockville, MD 20852
(301) 897-5700

Business Administration

AACSB—The Association for Management Education
600 Emerson Road, Suite 300, St. Louis, MO 63141-6762
(314) 872-8481

Chemistry

American Chemical Society (ACS)
1155 16th Street, NW, Washington, DC 20036
(202) 872-4589

Dietetics (coordinated undergraduate program)

American Dietetic Association (ADA)
216 W. Jackson Blvd., Suite 800, Chicago, IL 60606-6995
(312) 899-0040, Ext. 4876

Education

National Council for Accreditation of Teacher Education (NCATE)
2010 Massachusetts Ave., NW, Suite 500
Washington, DC 20036
(202) 466-7496

California Committee on Accreditation (COA)
1900 Capitol Avenue
Sacramento, CA 95814
(916) 445-0184

Engineering (undergraduate)

[B.S. degrees in Civil, Electrical, and Mechanical Engineering]
Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)
111 Market Place, Suite 1050, Baltimore, MD 21202
(410) 347-7700

Music

National Association of Schools of Music (NASM)
11250 Roger Bacon Drive, Suite 21, Reston, VA 20190
(703) 437-0700

Nursing

National League for Nursing (NLN)
350 Hudson Street, New York, NY 10014
(800) 669-1656

California Board of Registered Nursing (CBRN)
400 R Street, Suite 4030, Sacramento, CA 95814
(916) 322-3350

Psychology (graduate)

Association for Behavior Analysis: International
213 West Hall, Western Michigan University
Kalamazoo, MI 49008-5052
(616) 387-8341

Public Administration (graduate)

National Association of Schools of Public Affairs and
Administration (NASPAA)
1120 G Street, NW, Washington, DC 20005
(202) 628-8965

Rehabilitation Counseling

Council on Rehabilitation Education (CORE)
1835 Rohlwing Road, Rolling Meadows, IL 6008
(847) 394-1785

School Counseling and

Student Personnel Services

Council for Accreditation of Counseling and
Related Educational Programs (CACREP)
5999 Stevenson Ave., Alexandria, VA 22304-3300
(703) 823-9800, Ext. 301

Social Work (BA accredited; MSW in candidacy)

Council on Social Work Education (CSWE)
1600 Duke Street, Suite 300, Alexandria, VA 22314-3421
(703) 683-8080

Speech-Language Pathology (graduate)

American Speech-Language-Hearing Association (ASLHA)
10801 Rockville Pike, Rockville, MD 20852
(301) 897-5700

Affiliations

Cal State L.A. holds membership in a number of national and regional organizations concerned with the advancement of higher education. They include the American Council on Education (ACE), the American Association of State Colleges and Universities, the Association of American Colleges, Council of Graduate Schools, National Collegiate Honors Council, Western Association of Graduate Schools, and the Western Association of Schools and Colleges (WASC). Women graduates are qualified for membership in the American Association of University Women (AAUW).

The John F. Kennedy Memorial Library

The John F. Kennedy Memorial Library supports Cal State L.A.'s academic programs through instruction, collections, technology, and services that allow students and faculty access to recorded knowledge and information resources. The Library provides organized, logical, and timely access to

both local and remote sources that emphasize electronic resources through the World Wide Web. These electronic resources are accessible to CSU students wherever their location, through Cal State L.A. and CSU systemwide licenses. The Library strives to provide access to information appropriate to each school's disciplines, along with needed instruction and support. The Library offers customer-oriented assistance in selecting, locating, and using resources and designs and delivers instructional programs that foster learning and produce competency in the use of resources and research methodologies.

The Library is located at the center of the campus in two interconnected buildings—Library North and the Palmer Wing. The Library's Website, a comprehensive guide to the collections and online databases, is www.calstatela.edu/library.

Collections

The Library's collections of more than one million volumes include significant current and retrospective books that support all of the University's degree programs. They also include approximately 3,000 current subscriptions to periodicals, journals, serials, and newspapers and a comprehensive collection of Cal State L.A. master's degree theses that date from the University's inception. The Library is an official depository for U.S. government and California state publications.

Services

The Reference Center, located on the first floor of Library North, assists patrons with reference and research questions. Faculty and staff provide one-to-one instructional assistance on the use of the Library's wide range of computerized access systems available from more than 50 workstations within the Library, hundreds of other computers across the campus, and from anywhere via the Internet. Other services include interlibrary borrowing of materials, self-serve photocopying, and group study rooms. Books that are specifically designated as course reserve (limited loan) by faculty members may be checked out at the loan desk on the first floor of Library North.

Access to the information resources and services of all libraries within the CSU system is provided through Pharos, a state-of-the-art, end-user interface to all CSU information resources. Students, faculty, and staff may use their Cal State L.A. One Cards as library cards at any CSU library, thus gaining access to 23 campus collections that total nearly 15 million volumes.

In addition, Cal State L.A. and the University of Southern California offer reciprocal direct borrowing. Information about how to become eligible and how to apply for this privilege is available at the loan desk. Another borrowing agreement permits our students and faculty to borrow directly from UCLA libraries. Students may use this service upon payment to UCLA of \$25 for a six-month courtesy card or \$50 for a twelve-month courtesy card. Faculty members have free courtesy privileges at UCLA.

Library Instruction

Cal State L.A. students can learn more about the Library from faculty members in the Library. Developing an understanding of the organization and services of the Library, within a framework of information competence, will help students build a solid foundation for academic success and lifelong learning. Course instruction is available at instructor request. The Library also offers a lower division course (LIB 150) that

concentrates on the development of information competence skills.

Information Resources Management

Information Resources Management (IRM) facilitates the communication process of the University, provides planning and technical guidance in the integration of campus information technologies, and provides leadership in the efficient and effective use of a vital University resource—information. IRM's fundamental purpose is to provide high-quality information services to the campus in support of instruction; research, scholarly, creative, and service activities; and administration.

IRM units provide campuswide support in academic computing, media services, analytical studies, networking, telecommunications, office automation, and administrative computing.

Computing Facilities

Cal State L.A. students have access to various computing facilities with microcomputers. These include open access computer laboratories, technologically-mediated classrooms, and experimental laboratories with digital equipment. Through a campuswide network, student workstations can be linked to various network servers for file, print, computing services, and library resources, as well as the Internet and shared CSU computing resources. A variety of computer training courses is offered each quarter.

Open Access Laboratories

Open Access labs are available to students during daytime, evening, and weekend hours. The labs are staffed by qualified student consultants who answer questions and provide assistance. Further information can be obtained by calling (323) 343-4530 or by visiting our Web site at www.calstatela.edu/main/guide/campmap.htm.

Media Services

Media Services provides a wide range of services and products that visually and electronically enhance the communication of information. Particular emphasis is placed on providing resources to support faculty/student communication in the classroom or laboratory environment. Campus media facilities include the Distance Learning Studio and two-way video conference facility classroom, television/audio production studio, and a campus cable television channel.

Free Summer Quarter Plus (FSQ+) Program

California State University, Los Angeles invites qualified undergraduates to apply to a special program that offers them the opportunity to take a full complement of summer courses absolutely free through the **Free Summer Quarter Plus (FSQ+) Program**. All usual University fees are waived. Students who commit to take 48 units in a four-quarter period can save time toward graduation and 25 to 33 percent of their annual college fees. Students who are enrolled in the FSQ+ Program receive priority registration each quarter they are enrolled as a FSQ+ Program participant. In addition, many FSQ+ participants have the opportunity to be involved in learning communities, and all work with a specially trained FSQ+ faculty adviser. Students who are interested in the FSQ+ Program should refer to the *Admissions* and *Procedures and Regulations* chapters of this catalog.

International Programs

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 12,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in more than 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 16 countries, the International Programs also offers a wide selection of study locales and learning environments.

Australia	The University of Western Sydney
Canada	The universities of the Province of Quebec including: Universite de Montreal Concordia University Universite Laval McGill University Universite du Quebec system Bishop's University
Denmark	Denmark's International Study Program (the international education affiliate of the University of Copenhagen)
France	Institut des Etudes Françaises pour Étudiants Étrangers, Université de Droit, d'Economie et des Sciences d'Aix-Marseille (Aix-en-Provence) Mission interuniversitaire de coordination des échanges franco-américains, Universités de Paris III, V, VI, VIII, X, XI, XII, XIII
Germany	The institutions of higher education in the German Federal State of Baden-Wurtemberg, including: Ruprecht-Karls-Universität (Heidelberg) Universität Hohenheim Fachhochschule Nürtingen Fachhochschule Reutlingen

	Berufsakademie Stuttgart Universität Stuttgart Eberhard-Karls-Universität (Tübingen)
Israel	Tel Aviv University The Hebrew University of Jerusalem
Italy	CSU Study Center (Florence) Università degli Studi di Firenze La Accademia di Belle Arti Firenze
Japan	Waseda University (Tokyo)
Korea	Yonsei University (Seoul)
Mexico	Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Queretaro Universidad Pedagógica Nacional (Mexico City)
New Zealand	Lincoln University (Christchurch) Massey University [Palmerston North]
Spain	Universidad Complutense de Madrid Universidad de Granada
Sweden	Uppsala Universitet
Taiwan	National Chengchi University (Taipei)
United Kingdom	Bradford University Bristol University Kingston University (Greater London) Sheffield University University of Swansea University of Hull
Zimbabwe	The University of Zimbabwe (Harare)

International Programs pays all tuition and administrative costs for participating California resident students to the same extent that such funds would be expended to support similar costs in California. Participants are responsible for all personal costs, such as transportation, room and board, living expenses, and home campus fees. Participants remain eligible to receive any form of financial aid (except work-study) for which they can individually qualify.

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level, however, may participate in the intensive language acquisition programs in France, Germany, and Mexico. California community colleges transfer students are eligible to apply directly from their community college if they can meet this requirement. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other course work prerequisites.

Additional information and application materials may be obtained on campus from International Student Services, Admin. 127, (323) 343-3170; e-mail: jmyrick@cslanet.calstatela.edu; Web site: www.calstatela.edu/univ/intlstu or by writing to The California State University International Programs, 401 Golden Shore, 6th Fl., Long Beach, California 90802-4210

National Student Exchange

Cal State L.A. is a member of the National Student Exchange (NSE), a consortium of state universities located throughout the United States and its territories. The NSE makes it possible for Cal State L.A. students to study at one of more than 140 universities. Students may study for a quarter, a semester or for a full academic year. Courses to be taken are approved in advance by a Cal State L.A. academic adviser. One of the NSE's main attractions is that Cal State L.A. students may have the option to continue to pay Cal State L.A. tuition while studying at another university or may pay the same tuition as residents of the state where the university is located. Students pay the costs of room, board, books, and transportation and may use financial aid while participating in the NSE. Some NSE advantages include the opportunity to study in a different part of the United States, take courses that may not be available at Cal State L.A., explore graduate school and employment opportunities, and develop self-confidence and independence.

More information about the NSE, including the NSE Directory, catalogs from member universities, videos, and application materials may be obtained from International Student Services, Administration 127, (323) 343-3170; e-mail jmyrick@cslanet.calstatela.edu. For a list of NSE universities, visit our Web site at www.calstatela.edu/univ/intlstu.

Continuing Education

Continuing Education administers Extension programs, Special Sessions, Professional Development, Open University, the American Culture and Language Program (ACLP), and Distance Learning.

Extension Programs

Credit and noncredit extension courses are provided at various locations for the academic, professional, and cultural enrichment of persons who do not wish to take college courses in residence. Students may take extension courses without matriculating at Cal State L.A. provided that they meet course prerequisites. Extension credit offerings are equivalent in level and quality to regular University courses, and many courses may be applied to degree and credential requirements. Extension courses do not satisfy the University's residence requirement for graduation. Schedules are flexible, but they generally parallel the University's quarter calendar. For more information about extension courses, call (323) 343-4919 or 343-5964.

Special Sessions

Special sessions provides degree-oriented courses and programs to persons who are unable to spend time in residence on the campus in existing programs. Courses are often conducted in nontraditional periods, sometimes at off-campus locations. The academic standards of special sessions are identical to those of comparable University programs. Examples include summer sessions; interim sessions between regular terms; programs offered at military bases, correctional facilities, and other remote locations; and programs for specific groups for which state support is inappropriate. Special sessions are not offered at times or places that supplant or limit offerings of state-supported programs. Degree credit earned through special sessions applies toward residence requirements. For further information, call (323) 343-4919.

Professional Development

The University works closely with community, business, and professional organizations to satisfy the educational needs of the geographic area it serves. In doing so, the University conducts a variety of professional development courses, often on site and often at atypical hours. Many courses are offered in response to requests by government agencies, business groups, and professional associations. Others are offered by Cal State L.A. on its own initiative. All courses can be customized to suit the customers' requirements. For more information, call (323) 343-4921.

Open University

Open University permits nonmatriculated students to register concurrently with matriculated students in regular classes. Up to 36 units earned through Open University may be applied to a bachelor's degree at Cal State L.A., and up to 13 units may be applied to a master's degree.

Registration for Open University takes place in the Office of Continuing Education. The registration process is separate from that for matriculated students. It begins the first day of each quarter and continues for three weeks. There is no pre-registration.

Students who register through Open University must obtain the signature of the instructor and the stamp of the department/division for each class they choose. Students may not take directed study, independent study, directed teaching, research, or thesis courses, and students who register for 500-level courses must obtain a letter of approval from the department/division chair. Ongoing, matriculated students may not enroll in Open University. For more information, call (323) 343-4952.

American Culture and Language Program

The American Culture and Language Program provides noncredit language instruction to students and professionals whose first language is not English. The program is also open to persons with business or tourist visas, to residents, and to regularly enrolled students with specific English language needs. Intensive courses are conducted five hours per day, and students may attend up to 25 hours per week. Courses include all English language skills (reading, writing, listening, speaking), college skills, TOEFL preparation, general business, and computers for nonnative speakers. Students who wish to have an F-1 visa and international student status may obtain I-20 forms. Enrollment applications may be obtained from the American Culture and Language Program office, Library North B552, phone (323) 343-4840.

Distance Learning

Under the administration of Continuing Education, the Distance Learning office provides University-level courses using a variety of technologies. Courses are delivered locally, statewide, nationwide, and internationally. More than 1,000 distance learning registrations are processed yearly. Technologies include:

- Instructional Television Fixed Service (ITFS). Microwave signals transmit live instruction throughout Los Angeles and Orange County to both on-campus and off-campus students. Transmission capabilities: one-way video/two-way audio.
- Wireless Cable. Courses are delivered to students at home or in industry through cable television on The L.A.

Channel, Buenavision, Pacific Bell Video Services, and Cross-Country Wireless Cable.

- CODEC. Live courses are transmitted to remote locations equipped with CODEC (compressed/ decompressed video). Courses can be sent to a single campus (point to point), to all CSU campuses (point to multi-point), to many community college campuses, and to the UC campuses via 4CNET, a broadband transmission network available at no cost to the CSU and other state entities. CODEC can deliver courses not only within California but also nationally and globally. Transmission capabilities: two-way video/two-way audio.
- Internet. Instruction is delivered via computer online services. Students may take courses at home, at work, or wherever they are. Transmission capabilities: two-way electronic mail/downloadable text and graphics.
- Satellite. Televised courses are received from anywhere on the globe and scheduled for viewing both on- and off-campus. Some courses originate at Cal State L.A. and are beamed to off-campus sites.

Reserve Officer Training Programs

Air Force ROTC

Through arrangements with Loyola-Marymount University (LMU), the University of California, Los Angeles (UCLA), the University of Southern California (USC), Harvey Mudd College (HMC) and California State University-San Bernardino, two-year and four-year Air Force Reserve Officer Training Corps (AFROTC) programs and two, three, and four-year scholarships are available to qualified men and women attending Cal State L.A. Successful completion of as little as four semesters of AFROTC academic classes and leadership laboratories can lead to a commission as a second lieutenant in the United State Air Force.

Scholarships for Students who are enrolled in AFROTC programs cover the costs of enrollment, books, and a monthly subsistence allowance during the school year. U.S. citizenship is required for scholarship acceptance. The subsistence allowance is paid also to nonscholarship cadets enrolled in the two-year program and in the last two years of the four-year program. Four-year scholarships are available to incoming students who apply by December 1 the year before they enter college.

Freshmen may enter the four-year program by enrolling in the first Aerospace Studies course (AS 100) at UCLA, USC, LMU, HMC and CSUSB. Students who desire the two-year program should apply early in the fall of their second year of college (students must have three years of college remaining). Other eligibility requirements include U.S. citizenship (before the last two years of the program), ability to pass an Air Force medical exam and physical fitness test, good moral character, and good academic standing in college. Entry into the last two years of the program is competitive.

Classes consist of one hour of academic and two hours of laboratory for freshmen and sophomores. For juniors and seniors, they consist of three hours of academics and two hours of laboratory. The academic hours earned can normally be counted as elective credit toward graduation. Additionally, AFROTC cadets under scholarship and all juniors and seniors receive a \$150 per month tax-free stipend.

Subject matter includes Air Force organization, history, leadership and management principles, and American

defense policy. Courses at LMU and CSUSB are held on Fridays, at HMC on Tuesdays and at USC on Thursdays to better accommodate students commuting from other colleges.

Students may enroll in AFROTC simply by attending the first class and filling out an add/drop sheet. Students are under no obligation to serve in the military unless they accept a scholarship or are accepted into the corps of cadets after attending a summer training camp, normally between their sophomore and junior years. A multitude of special programs exist for students who have two years of either undergraduate or graduate study remaining or are enrolled in law, nursing, or other health profession programs.

Interested students should contact one of the following AFROTC offices for further information: LMU, (310) 338-2770; USC, (213) 740-6602; HMC, (909) 621-8123; or UCLA, (310) 825-1742. Students must follow Cal State L.A. dual registration procedures.

Army ROTC

The Army Reserve Officers Training Corps (AROTC) program is available to qualified Cal State L.A. students through the University of California, Los Angeles (UCLA) program. Students may cross enroll at UCLA.

Two-, three- and four-year programs that may lead to a commission as a second lieutenant in the U.S. Army, Army Reserve, or Army National Guard are offered. Participants must be physically qualified, full-time undergraduate or graduate students. Academic credits earned in the program normally may be counted as electives within degree requirements. Students who are enrolled during the final two years of the program receive a \$150 monthly allowance during the school year. Veterans may qualify to enter the two-year program (Advanced Course) and are eligible to receive the monthly allowance as well as G.I. Bill benefits.

Two, three, and four-year scholarships for Students who are enrolled in Army ROTC programs cover the costs of tuition and books and provide a \$150 monthly allowance during the school year. U.S. citizenship is required for scholarship acceptance. The \$150 allowance is paid also to nonscholarship cadets in the last two years of the four-year program. Four-year scholarships are available to incoming freshmen who apply by December 1 the year before they enter college.

For further information, contact the Department of Military Science at UCLA, (310) 825-7381. Students must follow Cal State L.A. dual registration procedures.

Los Angeles County

High School for the Arts (LACHSA)

LACHSA is a public high school for students within Los Angeles County and has operated since September 1985 on the Cal State L.A. campus. Designed for students with special talents in the visual and performing arts and open by audition only, the high school offers a full curriculum of academic subjects as well as opportunities for specialization in dance, music, theatre, and visual arts. Students are encouraged to enroll in the College Credit Program through which they may earn high school and college credit concurrently in specially designed courses. LACHSA students may also apply to take regular University courses. Operated by the Los Angeles County Office of Education, the school is tuition free and open to ninth through twelfth graders.

Cal State L.A. Alumni Association

The Alumni Association plays a key role on the campus as an advocate for alumni interests. The alumni are advocates of higher education, The California State University system in general, and Cal State L.A. in particular. The more than 120,000 Cal State L.A. graduates remain a vital and active catalyst in the University's growth. Alumni members and volunteers are active on campus and are in a unique position to provide advice and counsel to the University.

The Association's most visible program is the Alumni Awards Ceremony, which was initiated in 1973. This ceremony honors distinguished alumni, teachers, student and friends of Cal State L.A. such as; tennis professional Billie Jean King '79; Los Angeles Clippers owner, Donald T. Sterling '56; the late L.A. County Sheriff Sherman Block '68, and California State senator Diane Watson '67. The Alumni Association annually awards its prestigious Certificate of Honor, for outstanding achievement, to more than 150 graduate and undergraduate students at the annual Honors Convocation and has donated funds to refurbish the Alumni Lounge in the University-Student Union.

The Alumni Association is a self-supporting nonprofit, dues-paying organization whose mission is to engage alumni, students, and the campus community with the University.

Robert L. Douglass Speech-Language Clinic and Cal State L.A. Hearing Clinic

The Robert L. Douglass Speech-Language Clinic and the Cal State L.A. Hearing Clinic are housed on campus with the Department of Communication Disorders in the School of Health and Human Services. These clinics provide training facilities that offer diagnostic and rehabilitative services. The primary objective of the Speech-Language and Hearing Clinics is to serve the University's instructional programs by providing clinical training and research opportunities within each of the areas and across disciplines. This is accomplished by providing experiences for students that range from observation of the varied clinical activities to the provision of direct services to clients at the level of the students' clinical competence. Students learn under the supervision of experienced and appropriately credentialed faculty. The services are available to the public, both children and adults, and to members of the Cal State L.A. community.

Research, Scholarship and Supporting Services

The faculty engage in research, scholarship, training, and special projects as an integral part of their academic discipline and professional development. Both undergraduate and graduate students participate, as research assistants or independent investigators under faculty guidance, in research that is basic to their learning experience. The Office of Graduate Studies and Research and the Office of Research and Sponsored Programs provide stimulus, coordination, support, and direction to these research efforts. Additional services are provided by University Auxiliary Services, Inc., Academic Technology Support, and the John F. Kennedy Memorial Library.

Cal State L.A. University Auxiliary Services, Inc.

Cal State L.A. University Auxiliary Services, Inc. (UAS) is a recognized organization of the California State University

system and is a nonprofit, self-sustaining corporation, dedicated to benefit the welfare of students, faculty, and staff. The primary purpose of UAS is to help develop and administer contracts and grants, commercial enterprises, externally funded projects including research, workshops, and conferences, and to provide contributions that aid and supplement the University's educational mission. Working together, the University community and UAS endeavor to ensure Cal State L.A.'s continued success.

The main operations of UAS include the following services to the University community and other auxiliaries: financial support services, human resource management, contracts and grants administration, bookstore operation, copy services, dining and catering services, and child care services. UAS also manages the operation of a 40,000 square foot commercial building known as the University Centre located directly across the Interstate 10 freeway in Monterey Park.

The policy-making responsibility for the corporation is vested in its board of directors whose members represent a cross section of the campus community and local service area.

For more information, visit the UAS office in Administration 308, call (323) 343-2531, or view the Web page at www.calstatela.edu/univ/uas.

Endowed Chairs

Edward R. Roybal Endowed Chair in Gerontology and Public Service

The Endowed Chair in Gerontology and Public Service, housed in the School of Health and Human Services, was established to honor Edward R. Roybal, former Los Angeles City Councilman, longtime member of the U.S. House of Representatives, and chair of the U.S. House Select Committee on Aging. Funding was made possible by private donations. Mr. Roybal began his career in public service as a health educator and has long been a leader in the area of health care and services for the elderly.

The chair is affiliated with the campus' Roybal Institute for Applied Gerontology. The individual who is selected to fill the chair brings special emphases in the area of understanding the problems and needs of the aging, with particular attention to the multicultural and multiethnic communities in the greater Los Angeles area. Educational opportunities in developing expertise in community-based health and welfare programs, as they relate to policy development, are being implemented.

Matthew J. Guglielmo Endowed Chair in Mental Retardation

The Endowed Chair in Mental Retardation, housed in the Division of Special Education, Charter School of Education, was established to honor Matthew J. Guglielmo, former vice president of The Broadway Department Stores, and was made possible by contributions from the The Broadway and friends of Mr. Guglielmo.

Mr. Guglielmo has dedicated a major part of his life to focusing public attention on problems of the developmentally disabled. The chair continues to support excellence in teaching, significant research in the study of mental retardation, and collaboration between Cal State L.A. and community agencies and institutions that serve mentally retarded persons and their families.

Northrop Grumman Engineering Endowed Chair in Design and Manufacturing

The Northrop Grumman Engineering Endowed Chair in Design and Manufacturing was established in the School of Engineering and Technology to bring distinguished engineers and engineering educators in the field of design and manufacturing to the school for a one- to two-year period. Funding was made possible through a generous lead gift from the Northrop Grumman Corporation and additional matching support received from other smaller companies throughout the Southern California business community.

The individual selected to fill the chair works with the school faculty and administration to provide leadership in improving the quality of Cal State L.A.'s engineering and technology programs, enhance the school's manufacturing curriculum, and assist the school in fostering strong relationships with key contacts in industry and government to strengthen our research and external support.

Presidential Centers, Institutes and Bureaus

A presidential center, institute, or bureau is an entity chartered by the President of the University to further the mission of the campus. The following descriptions explain the focus of each.

Asian and Asian American Institute

The purpose of the institute is to identify issues and coordinate activities leading to the understanding and betterment of Asians and Asian Americans at Cal State L.A. Although it functions primarily as a campus resource and as a bridge between the University and its surrounding communities, the institute promotes and supports programs that encourage Asian and Asian American research. It works closely with the Asian and Asian American Studies programs and other ethnic studies programs on and off campus.

Asian Pacific Business Institute

Housed in the School of Business and Economics at Cal State L.A., the Asian Pacific Business Institute aims to support and foster cooperative relationships between the school and local business organizations. The growing importance of Asian economies has been one of the most significant global economic developments since the early 1980s. Increased economic interdependence between Asian countries and the U.S. leads to a variety of problems and issues concerning international business, but it also creates many opportunities. The Asian Pacific Business Institute seeks to provide support for both the business community and the University to identify, exploit, and benefit from those opportunities. The institute serves a wide range of audiences by developing, organizing, and promoting activities that can benefit students, faculty, and the business community. Through its activities, the institute can help advance the University's educational and public service missions, as well as contribute to economic development in Los Angeles. In addition, its activities can promote understanding and interaction among people from different parts of the world. The institute provides a wide range of expertise, services, and information that can benefit students, faculty, and the business community. Examples include executive training programs, business seminars, research, and exchange and internship programs.

Bilingual Center

The Charter School of Education operates a Bilingual Center that is housed in the Division of Educational Foundations and Interdivisional Studies. This Center functions as the administrative unit for federal funds that support the following bilingual activities:

B.C.C. Short-Term Training

Classes in bilingual methodologies and the history and culture of language minority children are provided for classroom teachers preparing for the Bilingual Certificate of Competence exam. Classes are offered on campus and at school sites in Los Angeles County.

Distribution of Bilingual Materials

Under the title of Evaluation, Dissemination, and Assessment Center, curriculum materials and texts are produced and distributed for use in bilingual programs at every level from kindergarten to university.

Educational Personnel Training Program

Stipends are provided for nearly 100 bilingual students to pursue course work that leads to the doctorate in special education.

Edmund G. Brown

Institute of Public Affairs

The Pat Brown Institute of Public Affairs, named after former California Governor Edmund G. "Pat" Brown (1959-1967), is a nonpartisan center for applied public policy focusing on community development and youth empowerment. Located on the Cal State L.A. campus since 1987, the Pat Brown Institute has a number of distinguished programs that assist the University in carrying out its urban mission while creating more inclusive and empowered communities in the Los Angeles Metropolitan Area. They include the Applied Policy Research Program, the PBI Publication Program featuring the Institute's annual policy journal *California Politics & Policy*, the Community Education Program annually anchored by a California Policy Issues Conference, the PBI Training Program on community service and community policing for law enforcement agencies and officers, the Public Policy Internship Program, and the Youth Violence Prevention/Leadership Development Program anchored by the award-winning Gang Violence Bridging Project. The institute works in program collaboration and partnership with university faculty and students, community organizations, K-12 schools, elected officials, and the private sector.

Bureau of Business and Economic Research

The School of Business and Economics maintains a research bureau to encourage, facilitate, and communicate faculty and student research. The bureau's primary objective is to relay information about research opportunities and ongoing research efforts to faculty members and students. In addition, it assists in the preparation of research proposals, coordinates research efforts, and provides research advising services for M.S. and M.B.A. degree candidates.

Center for Counselor Renewal

The center is designed to meet a specialized function of the Charter School of Education's Division of Administration and Counseling—that of continued professional and personal development of division alumni and other counseling practitioners. The center presents conferences, workshops,

and symposia, and provides professional materials to aid counselors' continuing efforts to renew skills, update technical information, address the needs caused by the rapidly changing demographic composition of communities, and maintain current knowledge of recent developments in the profession.

Center for Economic Education

Administered by the School of Business and Economics, the center is affiliated with the Economic Literary Council of California and the national Joint Council on Economic Education and sponsors workshops about economics for high school teachers. Included within the center is a library of reference and teaching materials (including video tapes) for economics teachers.

Center for Effective Teaching and Learning

The Center for Effective Teaching and Learning (CETL) is the primary University resource for information and assistance to improve the quality of instruction at Cal State L.A. Its efforts are concentrated in three interrelated areas: Instruction, Service Learning, and Instructional Technology.

Instruction

The CETL strives for successful and meaningful learning by providing services, support, resources, and reference materials to help faculty (including part-time faculty and teaching assistants) improve the effectiveness of their teaching.

The CETL's goals are threefold: 1) to highlight faculty instructional efforts and strength, 2) to provide workshops and individual consultation for faculty members, and 3) to provide a depository of resources including effective teaching materials and media. The goals are accomplished in several ways. Faculty share their expertise by means of media productions as well as involvement in a wide variety of workshops and seminars. The CETL holds the major responsibility for the orientation of new faculty including the implementation of the Mentor/Mentee and Faculty Development Partnership Program. The CETL's newsletter, *Instructionally Speaking*, contains information relevant to the improvement of instruction and assessment and is distributed campuswide. The CETL offers confidential individual consultation services, which may involve a single conference or a series of class observations or video tapes with collaborative instructional planning. Consultation also may include a problem-solving format in which departments/divisions or groups have identified specific instructional areas of concern. Solutions are then generated through a cooperative process. Individual self-paced instructional packets are available for faculty use.

Service Learning

The linking of academic study to community service or "service learning" is rapidly becoming an important discussion nationally in the realm of educational reform. CETL now has an additional focus: the development of curriculum that is both true to formal academic disciplines and sensitive to the needs of the local community. Resources now available in the CETL office and curriculum development workshops are being planned with various disciplines throughout the University.

Instructional Technology

The Faculty Instructional Technology Support Center (FITSC), located in Fine Arts, Room 138, is responsible for training and supporting faculty in the application of technology, especially

computer-based technology, as a tool of instruction within the classroom and at a distance. Four levels of technology use have been defined: 1) Technology in the classroom, 2) Technology to complement classroom instruction at a distance, 3) Technology for near-distance learning, which replaces some to most seat-time and 4) Technology for distance learning in which all instruction occurs online except for proctored exams.

FITSC's mission is to provide technological assistance to enhance the teaching, research, and productivity of Cal State L.A. faculty. This assistance is based on established principles of teaching and learning. FITSC also promotes and supports the development of mediated learning for in-class, on-line (World Wide Web), and distance learning courses; promotes the computer literacy and technological proficiency of Academic Affairs staff; and provides a state-of-the-art Faculty Computer Lab, including one-on-one instruction, telephone and email hotlines, on-line documentation and resources, workshops and seminars.

Center for Environmental Analysis – Centers for Research Excellence in Science and Technology (CEA-CREST)

CEA-CREST aims to increase the number of underrepresented minorities with Ph.D.'s in science, mathematics, engineering, and technology. The program fosters superb educational experiences by employing graduates and undergraduates in integrated research teams lead by an outstanding senior scientist, each tackling key environmental questions. Research emphasizes the areas of marine ecology, plant ecophysiology, air pollution chemistry, molecular evolution, and environmental equity.

CEA-CREST provides generous financial support for students, plus funds to travel to national scientific meetings. Highlighting the program is an opportunity for students to be fully funded in a Ph.D. program at regional campuses of the University of California. For further information, contact the CEA-CREST office at (323) 343-5799, email ceacrest@calstatela.edu, or web site: <http://ceacrest.calstatela.edu>.

Center for Excellence in Early Intervention

Housed in the Division of Special Education, the center was founded to create a model program for training early intervention professionals. Its objectives include developing, demonstrating, and evaluating the best practices in early intervention service delivery to young children with special needs and their families; providing early intervention training to professionals, paraprofessionals, and parents; developing and evaluating early intervention training and service delivery materials for dissemination to special educators, child development specialists, speech clinicians, allied health professionals, social workers, psychologists, physicians, and parents; and developing and operating a media and material library about early intervention.

Center for Information Resource Management

The Center for Information Resource Management promotes industry-campus partnerships in matters related to information technology. The centerpiece of this effort is the Computer Professional Internship Program, which provides firms with top students in Computer Information Systems,

Computer Science and Computer Engineering. Contractual arrangements between the University and participating firms allow the program to provide students with practical learning experiences in a professional setting and employers with a reliable source of talented employees.

Center for Japanese Studies

The center serves Cal State L.A. and the community as a source to aid faculty, students, and the general public in broadening and deepening their knowledge of Japan, its people, and culture. The center promotes Japanese research and academic studies and supports educational and cultural programs, seminars, guest lectures, and conferences. The office maintains a collection of basic bibliographies and essential reference materials.

Center for Korean-American and Korean Studies

The center is a depository of historical and cultural materials about Korea and Korean-Americans. Major objectives of the center are to promote, coordinate, and conduct research activities about various aspects of Korean culture and tradition, including oral histories; to compile, document, and produce curriculum materials about Korean folklore, art, music, and social activities; to develop continuing education programs about the Korean community's activities and programs for students, teachers, and the general public; to develop and produce curriculum materials and courses about Korean-American and Korean culture, tradition, and life; and to sponsor seminars, symposia, and exhibits about Korean culture and tradition.

Center for Minority Youth Employment Studies

The center conducts and coordinates research activities that further the interests of the community and strengthen the campus commitment to the community. A second objective is to direct and promote research into the sources of barriers to employment for minority and disadvantaged youth. A third objective is to develop, publicize, and promote programs to improve employment opportunities for minority and disadvantaged youth. This includes publishing studies and organizing seminars and workshops. Another objective is to foster career opportunities for the campus' diverse student body. The center also provides information about local labor market conditions.

Center for Multicultural Education

The center's specific goals and objectives are to provide in-service training for faculty and staff, and pre-service training to students about issues related to cultural pluralism, diversity, and multicultural education. The center can also provide assistance to faculty seeking a greater degree of infusion of multiculturalism into their curriculum. The center provides technical assistance to school districts, and offers a Saturday morning field experience for Cal State L.A. students who tutor students from the community who are at educational risk.

Center for Newly Independent States Studies

The Center's mission is to assist building and securing educational, business, and cultural bridges with the Newly Independent States (NIS). It provides International Distance Learning in business and other studies via the Internet for practitioners, students, and faculty of universities in the NIS.

The center strives to build partnerships with NIS and American businesses and offers informational service to promote international relationships in education and business. The center fosters effective use of new information technologies to facilitate international distance learning, international cooperation in education and business, and better multicultural understanding between the people of our countries.

Center for Spatial Analysis and Remote Sensing

The Center for Spatial Analysis and Remote Sensing (CSARS) was established with partial funding from NASA to function as a test-bed for public access to Geographic Information Systems (GIS) and remote sensing information. The center conducts educational, research and outreach activities focusing on Southern California. In addition to its regular university activities, short courses on GIS and other computer applications for novice and intermediate users are presented. As a part of its mission, CSARS provides training to Cal State L.A. faculty and to educators from kindergarten through doctoral-granting programs institutions. The center also provides a variety of state-of-the-art GIS services ranging from data collection to database development and analysis. Currently, CSARS houses on its dedicated server a large downloadable, multisector, digital database of Los Angeles County and is developing additional data sets for neighboring counties. With its integrated, comprehensive census, immigration and business database, the Center is well positioned to provide high quality economic baseline research, urban transportation studies, demographic analyses, and market research services at different geographic scales. These include census tract, block group, ZIP code, municipal and political districts, special planning areas and transportation zones.

Center for Technology Education

Operated by the Department of Technology, School of Engineering and Technology, the Center provides support and assistance for teachers, public agencies, business, and industry, including professional support and consulting, in-service activities, conferences and workshops, and disseminates professional information through an electronic bulletin communications network. Professional services offered in technology education and technical training include course, curriculum, and program development in advanced technologies such as robotics, computer-aided design (CAD), computer-aided manufacturing (CAM), desktop publishing, and fluid power. Assistance in problem solving for teachers of students with special needs also is provided.

Child Abuse and Family Violence Institute

The institute's purpose is to promote effective prevention of, and intervention in, child abuse and domestic violence by providing interdisciplinary educational training and policy development programs, and state-of-the-art resources for students, professionals, and the community. The institute promotes interdisciplinary cooperation between the University and community agencies by identifying the University as a focal point and resource within the community, county, and state, and internationally to provide professional education and research in child abuse and domestic violence. A broad scope of interdisciplinary educational training, research, and field placement opportunities and programs is available to

prepare individuals to provide effective multidisciplinary health and human services to maltreated children and their families.

Chinese Studies Center

The center endeavors to promote understanding of, and interest in, China by sponsoring conferences, seminars, guest lectures, exhibits, concerts, and other Chinese cultural activities. It maintains a small library of basic reference materials about China. These materials are available to faculty, staff, and students. The center also serves the Chinese communities in Los Angeles and assists Cal State L.A. students of Chinese descent, and helps promote research and teaching in Chinese studies.

Health Care Management Institute

This institute, housed in the School of Business and Economics, was established as a liaison between health care managers and executives and Cal State L.A. faculty and students. Its goals include increasing community awareness about the University and its Master's degree program in Health Care Management, developing a series of specialized certificate programs, and becoming a focal point for faculty research and publications in the health care management area.

Institute of Entrepreneurship

This institute, operated by the School of Business and Economics, provides programs and seminars and conducts research for small businesses in the product and service sectors. The programs, seminars, and courses are designed to provide the necessary training individuals need to succeed in small businesses. Research is conducted to provide insight into potential problems of small businesses and to suggest solutions. Publications for entrepreneurs are made available. The institute functions as a clearinghouse for information relative to small businesses. Other institute activities include assistance in advising Students who are enrolled in the Entrepreneurship option of the B.S. degree in Business Administration and making available an information bank to both students and professionals.

Institute of Nursing

The institute's primary purpose is to provide a vehicle for closer collaboration between the University and community agencies that provide health care. The institute emphasizes development of joint ventures and/or partnerships that lead to cost-benefit modes of health care delivery to a culturally diverse society.

The institute's primary goals are to improve the quality of nursing education, to develop effective strategies for recruitment and retention of nursing students, to help meet the staffing needs of nursing services, to improve the quality of nursing practice, and to facilitate collaboration in the areas of research, teaching, and grant writing.

Institute of Retail Management

The Institute of Retail Management prepares college students for management level careers in major retail companies. For those who have an entrepreneurial inclination, it provides the expertise to open and operate their own retail business. The institute raises funds for retailing scholarships and cooperates closely with the Career and Placement Center to increase retail recruitment on our campus, as well as to create retail internships. The institute sponsors a Retailer of the Year Award Luncheon, one of the nation's major retailing events, at which a senior retail executive is honored for outstanding

contributions to the retail industry. The institute administers the nationally acclaimed Institute of Retail Management College Incentive Program, a retail-jobs training program for Los Angeles inner-city high school students, many of whom are awarded retailing scholarships and go on to college. The institute's Advisory Council consists of executives of major retail and retail-related companies.

Pacific Contemporary Music Center

The Pacific Contemporary Music Center encourages the performance and promotes the awareness of contemporary musical compositions by composers of the Pacific Rim countries. The center sponsors contemporary music festivals and encourages other countries, universities, and organizations to join in sponsoring such festivals to present the members' compositions; encourages the mass media in participating countries to broadcast the members' music by providing copies of sound recordings; maintains a library of members' published and unpublished scores, sound recordings, performance documentation, and biographies; sends scores anywhere in the world for a period no longer than one month; publishes an annual catalog of the library holdings; sponsors and encourages contemporary seminars; and encourages research.

Pacific Rim Institute

A consortium created by Cal State L.A. and a group of Asian and U.S. firms to increase exchanges and improve communication and understanding between their corporate cultures, the institute seeks to provide managers in both U.S. and Pacific Asian business communities the knowledge and skills needed for managing the challenge of cultural differences. It also endeavors to increase their effectiveness in working together in each other's environment. These goals are accomplished through the presentation of seminars, forums, and briefings.

Productivity Center

The purpose of the School of Business and Economics' Productivity Center is to conduct and coordinate research activities that deal with various issues of productivity improvement and measurement; to act as an information center and catalyst for local governmental organizations and manufacturing and service firms, with an emphasis on helping those institutes become effective and efficient in producing products and providing services; and to promote the expansion of career opportunities for Cal State L.A. students in general, and those who are studying operations management in particular. The center compiles business and economic data for forecasting economic conditions in various industries. In addition, the center coordinates research activities that deal with issues of productivity improvement and measurement. It acts as an electronic information center for local governments, manufacturing enterprises, and service firms. The center promotes expansion of career opportunities for students and alumni in the business community and has trained students who are now active in various operations and information systems.

Edward R. Roybal Institute for Applied Gerontology

The institute's purpose is to improve the quality of care and delivery of services to older persons through the interdisciplinary education and training of professionals, paraprofessionals, family members, community agency personnel, and volunteers. Of special interest is the

development and promotion of programs to serve culturally diverse groups. The institute emphasizes the development of partnerships between the University and the community that promote the well-being of older persons and improve service delivery. An additional goal is to seek financial support in the form of scholarships for students planning to enter health and human service careers with a specialization in aging.

The Roybal Institute coordinates a multidisciplinary program to earn a certificate in Applied Gerontology designed to assist individuals interested in increasing their knowledge, understanding, skills, and effectiveness with older populations, especially the multiethnic and multiracial elderly. The program is designed not only for individuals interested in careers in gerontology but also those who are seeking a career change and those already in the field seeking to enhance their opportunities for advancement. Educational opportunities in developing expertise in community-based health and welfare programs as they relate to policy development have also been implemented.

Small Business Institute

The institute, housed in the School of Business and Economics, is involved in consulting with small businesses. The program allows a business to obtain assistance, at no cost and on a confidential basis, for analysis and assistance with any aspect of its operation. The work is done by upper division and graduate students who are supervised by faculty members from various business disciplines within the school.

Roger Wagner Center for Choral Studies

The center provides a structure within which teachers, scholars, and performing artists can teach choral music; explore and encourage composition of new repertoire; foster research and scholarly publication of emerging topics pertinent to choral study. The center's activities include cosponsorship of an international conference on Gregorian chant, presentation of a collection of scholarly articles, and an international choral composition contest.

Consortia

California Desert Studies Consortium

The California Desert Studies Consortium consists of seven Southern California campuses of The California State University which, together with the National Park Service, operate the Desert Studies Center in the Mojave Desert near Baker, California. Participating campuses include Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, and San Bernardino. The purpose of the center is to provide a field facility in the Mojave Desert to develop desert studies educational programs.

Established in 1976, the center serves students in the areas of anthropology, astronomy, biology, engineering, geography, and geology and provides a substantial support base for environmental and ecological studies that have immediate implications for effective management of desert resources. The central location allows accessibility to all parts of the desert region. Lodging and laboratory/storage space are offered in support of field-oriented courses. The center also provides a site for independent study courses and research of desert phenomena by individual students.

The Desert Studies Consortium is administered by the CSU Fullerton campus. Cal State L.A.'s representatives to the consortium are Dr. Alan Muchlinski, Professor of Biology and Chair of Biology and Microbiology, and Dr. David L. Soltz,

Dean of the School of Natural and Social Sciences and Professor of Biology. Students who wish more information should contact Dr. Muchlinski at (323) 343-2050 or Dr. Soltz at (323) 343-2000.

Ocean Studies Institute (OSI)

Opportunities for undergraduate and graduate study in the coastal environment are provided by the Ocean Studies Institute (OSI) which comprises six State University campuses: Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, and Pomona. The OSI is administered by the Long Beach campus. The OSI operates out of the docks and laboratory facilities of the Southern California Marine Institute (SCMI), Fish Harbor, Terminal Island in the Los Angeles - Long Beach Harbor.

The OSI participates in training managers and scientists and educating the public by coordinating and facilitating marine educational and research activities. In addition, the institute serves as an educational and research liaison among regions, states, and nations.

Seagoing research laboratory and instructional facilities are provided aboard the R. V. Yellowfin, an oceangoing research vessel. The Yellowfin is the property of the institute, and its use is scheduled through the office of the SCMI at (310) 519-3172.

Several courses within the departments of Biology and Microbiology, Geological Sciences, and Psychology and the School of Engineering and Technology, among others, utilize the Yellowfin and other Consortium facilities. These courses are announced in the *Schedule of Classes* each quarter.

Cal State L.A.'s representatives to the consortium are Dr. David Soltz, Dean, School of Natural and Social Sciences, and Dr. Carlos Robles, Professor of Biology. For additional information, contact Dr. Soltz at (323) 343-2000 or Dr. Robles at (323) 343-2050.

Admissions

General Information

Undergraduate Admission Requirements

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- Undergraduate Transfer Applicants
- Making Up Missing College Preparatory Subject Requirements
- Test Requirements
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Graduate and Postbaccalaureate Application Procedures

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- Transcript Requirements
- Test of English as a Foreign Language (TOEFL) Requirement

Admissions General Information

Requirements for admission to California State University, Los Angeles are set in accordance with Title 5, Chapter 1, Subchapter 3, of the *California Code of Regulations*. Prospective applicants who are unsure of the requirements are encouraged to consult a high school or community college counselor or to contact Cal State L.A.'s Office of Admissions and University Outreach, Student Affairs 101, phone (323) 343-3178. Applications may be obtained from the admission office at any of the campuses of The California State University, or at any California high school or community college. Electronic versions of the CSU undergraduate and graduate applications are accessible on the World Wide Web at www.csumentor.edu.

Cal State L.A. admits high school graduates as first-time freshmen, those from community colleges and degree-granting colleges and universities as undergraduate transfer students, and those who hold acceptable baccalaureates as postbaccalaureate or graduate students.

Importance of Filing Complete and

Accurate Application for Admission Documents

The CSU advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, and financial aid forms. Further, applicants must submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, *California Code of Regulations*).

Residence Determination

The determination about whether students qualify as legal residents of California for admission and tuition purposes is

made by a review of information in the residence questionnaire that all applicants submit with their application for admission. For a summary statement of the principal rules and exceptions about residence determination, see Appendix B.

Health Screening

Measles and Rubella (MR) Immunizations

All new students born after December 31, 1956, must provide acceptable proof of measles and rubella immunizations to the Health Center. Students will not be able to register for a second quarter until they have met this requirement. Acceptable proof can include immunization records or laboratory reports that show immunity to measles and rubella. These reports may be sent by mail, brought in person, or faxed to the Student Health Center at (323) 343-3304.

Tuberculosis (TB)

In addition to the above Measles/Rubella requirement, all new and returning international students and Residence Life and Housing tenants must provide acceptable proof of a negative tuberculosis (TB) test or chest x-ray taken within the past year. The form is available in the International Student Services and Housing Services offices.

Verification may be sent by mail, brought in person, or faxed to the Student Health Center at (323) 343-3304.

Measles/Rubella immunizations and TB tests and chest x-rays are offered at the Student Health Center. Call the MR/TB Information Line, (323) 343-3300, for complete instructions, clinic dates, and fees.

Undergraduate Admission Requirements

First-Time Freshman Applicants

Applicants who have completed no college work will be considered for admission as first-time freshmen under one of the provisions described below.

- You will qualify for regular admission as a first-time freshman if you:
- are a high school graduate,
- have a qualifiable eligibility index (see below), and
- have completed, with grades of C or better, the courses in the comprehensive pattern of college preparatory subject requirements (see Subject Requirements). Courses must be completed before your first enrollment in The California State University.

Eligibility Index

The eligibility index is the combination of your high school grade point average and your score on either the American College Test (ACT) or the Scholastic Aptitude Test (SAT I). Your grade point average is based on grades earned during your final three years of high school (excluding physical education and military science) and bonus points for approved honors courses. (see Honors Course)

Up to eight semester-long honors courses taken in the last two years of high school can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; C, 3 points.

You can calculate the index by multiplying your grade point average by 800 and adding your total score on the SAT I. Or, if you took the ACT, multiply your grade point average by 200 and add ten times the composite ACT score. If you are a California high school graduate (or a legal resident of California for tuition purposes), you need a minimum index of 2900 using the SAT I or 694 using the ACT. This minimum index applies for SAT I tests taken in April 1995 and thereafter. For earlier SAT I test scores, the minimum index is 2800. The table in Appendix A shows the combinations of test scores and averages required.

If you neither graduated from a California high school nor are a resident of California for tuition purposes, you need a minimum index of 3502 (SAT I) or 822 (ACT). This minimum index applies for SAT I tests taken April 1995 and thereafter. For earlier SAT I test scores, the minimum index is 3402.

Applicants with a grade point average higher than 3.0 (3.6 for nonresidents) are exempted from the test requirement. However, applicants are urged to take the SAT I or the ACT

because all campuses use test results for advising and placement purposes.

You will qualify for regular admission when the University verifies that you have a qualifying eligibility index and will have completed the comprehensive pattern of college preparatory subjects and, if applying to an impacted program, meet supplementary criteria. (See Appendix A for Index Table)

Subject Requirements

The California State University requires that first-time freshman applicants complete, with grades of C or higher, a comprehensive pattern of college preparatory study that totals 15 units. A unit is one year of study in high school. Within the 15 units completed, up to one unit (one year) in visual and performing arts or foreign language may be missing and offset by a college preparatory course(s) in other areas. The missing unit of visual and performing arts or foreign language must be completed either prior to, or by the end of the first year, of CSU enrollment. This provision is effective through the 2000-2001 academic year.

- **English:** 4 years.
- **Mathematics:** 3 years: algebra, geometry, and intermediate algebra.
- **U.S. History, or U.S. History and government:** 1 year.
- **Science:** 1 year with laboratory: biology, chemistry, physics, or other acceptable laboratory science.
- **Foreign language:** 2 years in the same language (or demonstration of equivalent competence).
- **Visual and performing arts:** 1 year: art, dance, drama/theater, or music.
- **Electives:** 3 years: courses selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, and agriculture.

Foreign Language Subject Requirement

The foreign language subject requirement may be satisfied by applicants who demonstrate competence in a language other than English equivalent to, or higher than, that expected of students who complete two years of foreign language study. Consult your school counselor or any CSU campus admissions or relations with schools office for further information.

Subject Requirement

Substitution for Students with Disabilities

Applicants with disabilities are encouraged to complete college preparatory course requirements if possible. If you are judged unable to fulfill a specific course requirement because of your disability, you may substitute alternative college preparatory courses for specific subject requirements.

Substitutions may be authorized on an individual basis after review and recommendation by your academic adviser or guidance counselor in consultation with the director of a CSU program for students with disabilities. Although the distribution may be slightly different from the course pattern required of other students, students who qualify for substitutions will still be held for 15 units of college preparatory study. You should be aware that failure to complete courses required for admission may limit your later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please contact the Director of Services for Students with Disabilities at your nearest CSU campus.

Honors Courses

Grades in up to eight semester courses designated as honors courses in approved subjects and taken in the last two years of high school receive additional points in grade point average calculations. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; C, 3 points; D, 1 point; and F, none.

College Preparatory Courses Recommended

Most academic advisers agree that preparation for university study includes preparation in subjects beyond English and mathematics. Bachelor's degree curricula build upon previous study in the natural sciences, social sciences, visual and performing arts, foreign languages, and the humanities. Students who plan to major in mathematics, the sciences (including computer science), engineering, premedicine, other science-related fields, business, or economics should complete four years of college preparatory mathematics. Students in the social sciences and preprofessional fields of study should include at least three years of college preparatory mathematics in their studies. Further, all students should include English and mathematics in the final year of high school.

Provisional Admission

Cal State L.A. may provisionally admit first-time freshman applicants based on academic preparation through the junior year of high school and courses planned for the senior year. The campus will monitor the senior year work to ensure that those so admitted complete their senior year course work satisfactorily—including required college preparatory subjects—and graduate from high school.

Foreign High School Graduates

Applicants, except international (visa) students who are graduates of secondary schools in foreign countries, must be judged to have academic preparation and abilities equivalent to those of eligible California high school graduates. Cal State L.A. reviews the previous records of all such applicants; only those with promise of academic success equivalent to that of eligible California high school graduates are admitted. Such applicants are not required to take the ACT or the SAT except when specifically requested to do so.

Undergraduate Transfer Applicants

You qualify for admission as a transfer student if you have a C (2.0) grade point average or better in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

- Meet the freshman admission requirements in effect for the term to which you are applying (see Freshman Requirements section).
- Were eligible as a freshman at the time of high school graduation and have been in continuous attendance at an accredited college since high school graduation.
- Were eligible as a freshman at the time of high school graduation except for the subject requirements, have made up the missing subjects, and have been in continuous attendance in an accredited college since high school graduation.
- Have completed at least 84 transferable quarter (56 semester) units and have made up any missing subject requirements (see Making Up Missing College Preparatory Subjects section). Nonresidents must have a 2.4 grade point average or better.

Applicants who graduated from high school in 1988 or later:

- Have completed all subject requirements in effect at the time of high school graduation (use both high school and college course work), or
- Have completed at least 30 semester units of college course work with a grade of C or better in each course to be selected from courses in English, arts and humanities, social science, science, and mathematics at a level as least equivalent to courses that meet general education requirements. **The 30 units must include all of the general education requirements in communication in the English language (at least 9 semester units) and the requirements in mathematics (usually 3 semester units)**, or the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English, composition, oral communication, and critical thinking and the requirement in mathematics.

Applicants who graduated from high school before 1988:

- Have completed 4 years of high school English and 2 years of high school math, with grades of C or better, or
- Have completed baccalaureate courses with grades of C or better that meet the general education requirements in communication in the English language and mathematics/quantitative reasoning, or
- Have completed IGETC requirements in English composition and mathematical concepts and quantitative reasoning. The course used to meet the general education math requirement must be above the level of intermediate algebra.

Transferable courses are those designated for baccalaureate credit by the college or university that offers the courses.

Making Up Missing College**Preparatory Subject Requirements**

Undergraduate applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways.

- Complete appropriate courses with grades of C or higher in adult school or high school summer sessions.
- Complete appropriate college courses with grades of C or higher. One college course of at least three semester units or four quarter units will be considered equivalent to one year of high school study.
- Earn acceptable scores on specified examinations.

Please consult any CSU admissions office for further information about alternative ways to satisfy the subject requirement.

Test Requirements**Scholastic Aptitude Test (SAT) and American College Test (ACT)**

Freshman and transfer applicants who have completed fewer than 84 quarter or 56 semester units of transferable college work must submit scores unless exempted (see Eligibility Index earlier in this chapter) from either the Scholastic Aptitude Test of the College Board (SAT I)** or the American College Test Program (ACT). Test scores are also used for advising and placement purposes. Registration forms and the dates for both tests are available from school and college

counselors and from CSU campus testing offices. Cal State L.A.'s Testing Center is located in the Library, Palmer Wing 2098, (323) 343-3160. Or, you may write to:

The College Board (SAT I)
Registration Unit, Box 592
Princeton, New Jersey 08541

American College Testing Program (ACT)
Registration Unit, P.O. Box 168
Iowa City, Iowa 52240
(319) 337-2370

TOEFL Requirement

All undergraduate applicants, irrespective of citizenship, whose preparatory education was principally in a language other than English must demonstrate competence in English. Cal State L.A. requires a minimum 550 score on the paper-based TOEFL or a 213 on the computer-based TOEFL.

Undergraduate applicants who are U.S. citizens or permanent residents, and who are subject to the TOEFL for admission purposes, may submit results of the English Language Proficiency Test (ELPT) in lieu of the TOEFL Fall 1998 through Spring 2001. The required minimum score Cal State L.A. considers comparable to a TOEFL score of 550 is an EPLT score of 963.

To obtain TOEFL registration materials and test dates, write to:

Educational Testing Service
P. O. Box 6154
Princeton, New Jersey 08541-6151

You also may contact the U. S. embassy in your country for TOEFL information. Request that your TOEFL test results be sent directly to California State University, Los Angeles (institution code 4399).

Systemwide Placement Tests**Required of Most New Students**

The CSU requires that new students be tested in English and mathematics after admission, but before they enroll in classes. These are not admission tests, but a way to determine if you are prepared for college work and, if not, to counsel you how to strengthen your preparation. You might be exempted from one or both of the tests if you have scored well on other specified tests or completed appropriate courses.

All nonexempt undergraduates must complete the EPT and ELM after admission and before first enrollment in courses at Cal State L.A.

English Placement Test (EPT)

All nonexempt undergraduates* must complete the CSU English Placement Test after admission and before registering for classes. After testing, students must enroll in the appropriate English course in their first quarter of attendance and must complete all English requirements in one year. Exemptions from the test are given only to those who present proof of one of the following:

- A score of 3, 4, 5 on either the Language and Composition or the Composition and Literature examination of the College Board Scholastic Advanced Placement program.
- A score on the CSU English Equivalency Examination that qualifies the student for "Pass for Credit" or "Exemption" before July 1993.

- A score of 470 or higher on the verbal section of the College Board Scholastic Aptitude Test (SAT) taken before March 1994.
- A score of 470 or higher on the Verbal section of the College Board SAT I** Reasoning Test taken between March 1994 and March 1995. (If taken after March 1995, see note below.)
- A score of 22 or higher on the American College Testing (ACT) English Usage Test taken before October 1989.
- A score of 25 or higher on the enhanced ACT English Test taken October 1989 or later.
- A score of 600 or higher on the College Board Achievement Test** in English Composition with essay taken before January 1994.
- A score of 600 or higher on the College Board SAT II** Writing Test taken between January 1994 and March 1995. (If taken after March 1995, see note below.)
- A score of 550 or higher on the Verbal section of the College Board SAT I** Reasoning Test taken on or after April 1, 1995.
- A score of 660 or higher on the College Board SAT II** Writing Test taken on or after April 1, 1995. (See note below.)
- For transfer students, completion and transfer to the CSU of a college course that satisfies the General Education Breadth requirement or the Intersegmental General Education Transfer Curriculum requirement in English composition if such a course was completed with a grade of C or better.

Verification of successful completion of the appropriate course may be required either before registration or by the document deadline date specified at the time of admission. Students who do not submit the required documentation by the time specified are subject to having their admission rescinded and, if enrolled, being dropped from all courses.

The results of the EPT will not affect admission eligibility, but will be used to identify students who need special help in reading and writing to complete college-level work. Information bulletins and registration materials for the EPT will be mailed to all students subject to this requirement or may be obtained at the Cal State L.A. Testing Center, Library, Palmer Wing 2098, (323) 343-3160.

Entry Level Mathematics (ELM) Exam

The ELM exam measures entry-level mathematics skills acquired through three years of rigorous college preparatory mathematics course work (normally Algebra I, Algebra II, and Geometry).

All undergraduate students must take the test or be exempted from it after admission and before registering for classes. After testing, students must enroll in the appropriate mathematics course work in their first quarter of attendance and must complete all math requirements in one year. The campus will determine specific policies about retesting and placement. Exemptions from the test are given only to students who can present proof of one of the following:

A score of 3 or higher on the College Board Advanced Placement mathematics examination (AB or BC).

A score of 560 or higher on the mathematics section of the College Board SAT taken before March 1994.

- A score of 560 or higher on the Mathematics section of the College Board SAT I** Reasoning Test or on the College Board SAT II** Mathematics Tests Level I, II or IIC (calculator) taken on or after March 1, 1994.
- A score of 24 or higher on the American College Testing Mathematics Test taken before October 1989.
- A score of 25 or higher on the enhanced ACT Mathematics Test taken October 1989 and later.
- For transfer students, completion and transfer to the CSU of a college course that satisfies the General Education-Breadth requirement or the Intersegmental General Education Transfer Curriculum requirement in Quantitative Reasoning if such a course was completed with a grade of C or better.

Verification of successful completion of the appropriate course may be required either before registration or by the document deadline date specified at the time of admission. Students who do not submit the required documentation by the time specified are subject to having their admission rescinded and, if enrolled, being dropped from all courses.

Students who are required to take this examination should do so as soon as possible after admission and before they enroll in courses. The results of this examination do not affect admission, but will be used to identify students who need special help in mathematics to do college-level work.

Students who cannot demonstrate basic competence on the examination are required to take steps to overcome deficiencies the first quarter of their enrollment. Any course work undertaken primarily to acquire the required competence shall not be applicable to the baccalaureate

Information bulletins and registration materials for the EPT and ELM examinations are mailed to all students subject to the requirements. The materials may also be obtained from the Cal State L.A. Testing Center, Library, Palmer Wing 2098, (323) 343-3160.

**Undergraduates admitted with 56 or more transferable semester units and who are subject to a campus catalog or bulletin earlier than 1986-87 are not required to complete the EPT.*

***The College Board SAT and Achievement Tests were replaced by SAT I and SAT II, respectively, beginning March 1994. As of April 1, 1995, the SAT I and SAT II exams are being scored on a new scale; however, the SAT scores qualifying for exemption from the ELM remain the same.*

Credit for Nontraditional Learning Experiences

Credit for certain nontraditional learning experiences may be used in determining eligibility and credit allowances of undergraduate applicants. These nontraditional credit allowances are listed and described below. A more detailed analysis of each category appears later in this chapter under Evaluation of Transfer Credit.

Categories and Credit Allowances

- Baccalaureate-level course credit certified by the Defense Activities in Nontraditional Education Support (DANTES) yields a maximum of 36-quarter units.
- Advanced Placement examinations of the CEEB with scores of 3, 4, or 5 yield 9-quarter units for each examination.

- For credit allowance for standardized external examinations, including CLEP, Advanced Placement, the CSU English Equivalency Exam, the American Chemical Society Cooperative Examination, see the explanations later in this chapter.
- For basic training military service, 9 quarter units of lower division elective credit are awarded for 1 year or longer of active duty, and 4½ quarter units for 6 months to one year with an honorable discharge.
- Civilian and military courses and schools recommended for credit by the American Council on Education's Commission on Educational Credit and Credentials yield a maximum of 12-quarter units.

Free Summer Quarter Plus (FSQ+) Program

The Free Summer Quarter Plus (FSQ+) Program is available to all qualified undergraduates including continuing Cal State L.A. students, first-time freshmen, and transfer students. Students who wish to enroll in the FSQ+ Program must:

- Have been admitted to Cal State L.A.
- Be a California resident for fee purposes.
- Have and maintain a minimum 2.25 GPA.
- Need to complete 48 or more units to earn a bachelor's degree at the beginning of the summer quarter.
- Be eligible to enroll in college level math and English.
- Declare a major. See an adviser and develop an academic program suitable to their major.
- Commit to 48 units over a four-quarter period beginning with summer. This includes enrolling in a minimum of 12 units in each of the summer and fall quarters.

Once they have met the eligibility requirements, students are required to maintain a minimum overall 2.25 GPA and complete 48 units between summer and spring of the next year. See the *Procedures* section of this chapter for information about how to apply to FSQ+.

International (Visa)

Student Admission Requirements

The CSU must assess the academic preparation of international (visa) students. For this purpose, "international students" include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications.

The California State University uses separate requirements and application filing dates in the admission of international (visa) students. Verification of your English proficiency (see the section about the TOEFL requirement for undergraduate transfer applicants), financial resources, and academic performance are all important considerations. Academic records from foreign institutions must be on file at least eight weeks before registration for the first term and, if not in English, must be accompanied by certified English translations. Priority in admission is given to residents of California.

International (visa) applicants and all others who are not permanent U.S. residents will be admitted to Cal State L.A. only if they meet one of the following sets of requirements:

- Completion of two years (84 quarter units or equivalent) of acceptable college work with a minimum 2.4 grade

point average as evaluated by the University (A=4.0) and a minimum 550 paper-based or 213 computer-based score on the Test of English as a Foreign Language (TOEFL); or

- Graduation from a foreign high school where the language of instruction was not exclusively English (with a minimum 3.0 grade point average as evaluated by the University), a minimum 2.4 grade point average in any college work attempted (as evaluated by the University), and a minimum 550 paper-based or 213 computer-based TOEFL score (refer to the section about the TOEFL requirement). The academic eligibility requirement is the same as for graduates of high schools outside California, although submission of ACT or SAT scores is not necessary. Foreign high school equivalencies will be determined by the University; or
- Graduation from a foreign high school where the language of instruction was not exclusively English (with a minimum 3.0 grade point average as evaluated by the University) and a minimum 550 paper-based or 213 computer-based TOEFL score (refer to the section about the TOEFL requirement). The academic eligibility requirement is the same as for graduates of high schools outside California, although submission of ACT or SAT scores is not necessary. The University will determine foreign high school equivalencies.

Undergraduate applicants who have attended full time, for at least three years, either an accredited U.S. college or university or a foreign high school, college, or university where the exclusive language of instruction was English are exempted from the TOEFL requirement.

In exceptional cases, the Director of Admissions and University Outreach may waive the TOEFL score requirement if recommended by the applicant's proposed major department or division. Variation from the minimum TOEFL score will be considered only for applicants with a B (3.0) grade point average as evaluated by the Admissions Office and whose TOEFL score is not more than ten points below 550 paper-based score or not more than six points below a 213 computer-based score.

The U.S. Immigration and Naturalization Service (INS) requires that F-1 visa undergraduate students carry a minimum study load of 12 quarter units. Visa students must have advance proof of adequate financial resources, be in good health, and comply with all Cal State L.A. and INS regulations. Consult International Student Services, (323) 343-3170, for information about visas, housing, and related matters. Application forms for international students, available at the Admissions Office, should be submitted during the initial filing period for the desired quarter of entry.

Applicants are invited to take a virtual campus tour of Cal State L.A. or to apply for admission on the World Wide Web at www.csumentor.edu.

General Guidelines for Foreign Records

Applicants with foreign academic work are required to submit official copies of academic records, along with a certified English translation. Academic records should include: secondary school records; yearly records from each college or university attended that indicate the number of hours per semester or year devoted to each course and the grades received; and official documents that confirm the awarding of the degree and include the title and date.

All official documents submitted become the property of the University. The University will determine the acceptability of any foreign work.

Insurance Requirement

Effective August 1, 1995, as a condition of receiving an I-20 or ASP-66 form, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment in The California State University. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information may be obtained from the International Student Services Office, Administration 127, (323) 343-3170.

Second Baccalaureate Applicants

Students who have earned a baccalaureate from an accredited institution may earn a second baccalaureate at Cal State L.A. They are considered postbaccalaureate applicants and must meet the admission requirements for graduate and postbaccalaureate students (see the section later in this chapter). However, students who wish to pursue a second baccalaureate must file an Undergraduate Admission Application.

Special Admission Categories

Adult Students

As an alternative to regular admission criteria, applicants who are 25 years of age or older may be considered for admission as adult students if they meet all of the following conditions:

- Possess a high school diploma (or have established equivalence through either the tests of General Educational Development or the California High School Proficiency Examination); and
- Have not been enrolled in college as full-time students for more than one term during the past five years; and
- If they have attended any college in the last five years, have earned a C (2.0) average or better.

Consideration is based on a judgment about whether the applicant is as likely to succeed as regularly-admitted freshmen and undergraduate transfer students and will include an assessment of basic English language and mathematical computation skills. Questions should be directed in writing to the Director of Admissions and University Outreach.

Educational Opportunity Program (EOP)

The Educational Opportunity Program (EOP) assists undergraduate students who are disadvantaged because of their economic or educational background. EOP serves California residents who do not meet regular admission criteria, as well as those who qualify for regular admission, if they have a history of low income and need academic and financial assistance.

In addition to special admission procedures, the program provides specialized orientation, financial assistance, advisement by professional and peer counselors (usually upper division students), tutoring, and access to specialized courses. Because not all EOP applicants can be guaranteed admission, alternative opportunities should be investigated. Applications and information may be obtained from the EOP Office, Student Affairs 215, (323) 343-4EOP.

Early Entrance Program (EEP)

Cal State L.A.'s Early Entrance Program (EEP) serves highly gifted students who need the academic challenges of a university environment to develop intellectually, but who are chronologically younger than traditional undergraduates and have not yet graduated from high school. Students who are younger than 16 years old at the start of the summer quarter, but are at least 11 years old are eligible for the EEP. Participation is open by invitation, and admission is based on performance in an academic assessment inventory administered by the program director, personal interview of the applicants and their parents, and the completion of a provisional quarter of study. Some of the qualities needed for admission include, but are not limited to, maturity, academic talent and need for acceleration.

Those students whose academic and personal performances are judged adequate and appropriate are admitted to the EEP after final approval from the Faculty Admission committee. Regular meetings with EEP staff, participation in scheduled activities and enrollment as a full-time, degree-seeking undergraduate is required. EEP students are responsible for tuition identical to other CSU students but are eligible for financial aid and scholarship assistance. Upon admission, EEP students are admitted to the University's General Education Honors Program. For further information please contact the EEP at (323) 343-2287, fax (323) 343-5574 or visit our website at www.calstatela.edu.

High School Students

Students still enrolled in high school are considered for enrollment in certain special programs if recommended by their principal and the appropriate campus department or division chair and if their preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment. Two such Cal State L.A. programs are described in the following paragraph.

Accelerated College Enrollment (ACE) and Pre-Accelerated College Enrollment (PACE)

The ACE program is designed for high school seniors and juniors, and the PACE program is available for mentally gifted or talented ninth and tenth graders. Through the ACE and PACE programs, eligible students enroll in selected regular college courses and receive college credit for them. The Associate Director of Admissions and University Outreach, Student Affairs 101, (323) 343-3178, coordinates these programs. Admission to these programs does not necessarily constitute the right to continued enrollment.

High School Nongraduates

Applicants older than 18 years of age who have not graduated from high school are considered for admission only when their preparation in all other ways is such that Cal State L.A. believes their promise of academic success is equivalent to that of eligible California high school graduates. These applicants are required to submit General Educational Development (GED) test scores to establish high school graduation equivalence and an official high school transcript that shows all work completed to the last date of attendance. Scores on the ACT or SAT also are required.

Veterans

Veterans of U.S. military service who are California residents may be admitted as either first-time freshmen or undergraduate transfers, even though such applicants are not

otherwise eligible. Veterans who wish to be admitted under this provision should contact the Admissions Office.

Applicants Not Regularly Eligible

Applicants who are not admissible under one of the above provisions should enroll in extension courses, a community

college, or another appropriate institution to meet eligibility requirements. Only under the most unusual circumstances and by authorized action will such applicants be admitted to Cal State L.A. without additional academic preparation as described above.

Undergraduate Application Procedures

Prospective students who are applying for part-time or full-time undergraduate programs of study, in day or evening classes, must file a complete undergraduate application as described in the undergraduate admission booklet. The \$55 nonrefundable application fee should be in the form of a check or money order payable to "The California State University" and may not be transferred or used to apply to another term.

An alternate choice campus and major may be indicated on the application, but applicants should list as an alternate campus only a CSU campus that offers the major they desire. Generally, an alternate major will be considered at the first-choice campus before an application is redirected to an alternate-choice campus.

A request for change of campus after an application has been filed should be directed to the new choice of campus for approval and determination that space is available. If the request can be met, the new first-choice campus will direct the request to the original first-choice campus for a transfer of the application. Such a change cannot be guaranteed, but will be accomplished if possible, and only for the term for which the application was filed.

CSU application booklets may be obtained at Cal State L.A. in Admissions and University Outreach, Student Affairs 101; from the admissions office of any other CSU campus; or at any California high school or community college.

Use of Social Security Number

Applicants are required to include their Social Security account number on CSU applications for admission pursuant to the authority contained in Section 41201 of Title 5, *California Code of Regulations*. The Social Security account number is used to identify records that pertain to the student and to identify the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Cal State L.A. uses the student's Social Security number as the official means of student identification and refers to the number as the student's Student Identification Number (SID). On most student forms, the name is abbreviated as SID.

Application Filing Periods

Terms in 1999-2000	Applications First Accepted	Student Notification Begins
Summer Quarter 1999	Feb. 1, 1999	March 1999
Fall Quarter 1999	Nov. 1, 1998	Dec. 1998
Winter Quarter 2000	June 1, 1999	July 1999
Spring Quarter 2000	Aug. 1, 1999	Sept. 1999

Terms in 2000-01	Applications First Accepted	Student Notification Begins
Summer Quarter 2000	Feb. 1, 2000	March 2000
Fall Quarter 2000	Nov. 1, 1999	Dec. 1999
Winter Quarter 2001	June 1, 2000	July 2000
Spring Quarter 2001	Aug. 1, 2000	Sept. 2000

Terms in 2001-02	Applications First Accepted	Student Notification Begins
Summer Quarter 2001	Feb. 1, 2001	March 2001
Fall Quarter 2001	Nov. 1, 2000	Dec. 2000
Winter Quarter 2002	June 1, 2001	July 2001
Spring Quarter 2002	Aug. 1, 2001	Sept. 2001

Filing Period Duration

Each campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category because of overall enrollment limits. Applicants who apply after the initial filing period should consult the campus Admissions Office for current information.

International (Visa) Applicants

Application filing periods for international (visa) applicants differ from those for domestic applicants because of additional time required to evaluate records and prepare the necessary documents for the Immigration and Naturalization Service (INS). The filing periods are established as follows:

Quarter	Application Filing Period
Fall Quarter.....	November 1–March 1
Winter Quarter	June 1–September 1
Spring Quarter	August 1–October 1

The Director of Admissions and University Outreach may waive this advance application requirement if circumstances warrant. In addition to the academic requirements outlined earlier in this chapter, international students must have competence in the English language, financial resources adequate to provide for all expenses during their period of study at Cal State L.A., and must be in good health.

Application Acknowledgment

Applicants may expect to receive an acknowledgment from their first-choice campus within two to four weeks of filing the application. A notice that space has been reserved for them will also include a requirement that they submit the records necessary for the campus to evaluate their qualifications. They may be assured of admission if the evaluation of their qualifications indicates that they meet admission requirements. Such a notice is not transferable to another term or to another campus.

Transcript and Admission Test Score Requirements

Undergraduate transfer students are required to comply with the following transcript and test score requirements as part of the application procedures for admission. Classifications of applicants apply as of the date of intended enrollment.

Applicants with fewer than 84 units completed

Transcripts: One from high school of graduation; one from each college attended. Test Score: ACT or SAT.

Applicants with 84 or more quarter units completed

Transcripts: One from each college attended; graduate and second baccalaureate applicants, two from each college attended.

Returning Students

Transcripts: One from each college attended since last enrollment at Cal State L.A. unless otherwise notified by the Admissions Office. One from each college attended before Cal State L.A. if student last attended Cal State L.A. more than one year ago.

Engineering Majors

Transcripts: Two from high school of graduation; two from each college attended.

Nursing Majors

Transcripts: One sent directly to Admissions Office; one to Department of Nursing. CAUTION: Transcripts must be sent directly from each college and school of nursing attended.

Transcripts must be sent directly from the institutions involved to Cal State L.A.'s Admissions Office. All transcripts become University property and will not be released or copied, except for students who request that their application be redirected to another CSU campus. Processing of applications cannot be guaranteed unless all required documents and test scores are received during the appropriate application period. All required documents from within the U.S. must be received 30 days before the first day of the term to which the applicant applies. Documents from outside the U.S. must be received 60 days before the first day of the term to which the applicant applies. Transcripts are retained one year for applicants who do not enroll in the quarter of application or who send transcripts but do not file an application.

Impacted programs

The CSU designates academic programs to be impacted when more applications are received in the first month of the filing period than the spaces available can accommodate. Some programs are impacted at every campus where they are offered; others are impacted at some campuses but not all. You must meet supplementary admission criteria if you are applying to an impacted program.

The CSU announces before the opening of the fall filing period which programs are impacted and the supplementary criteria campuses will use. That announcement is published in the CSU Review, which is distributed to high school and college counselors and given to program applicants.

You must file your application for admission to an impacted program during the first month of the filing period. If you wish to be considered for impacted programs at two or more campuses, you must file an application to each campus.

Supplementary Admission Criteria

Each campus that has impacted programs uses supplementary admission criteria in screening applicants. Campuses are authorized to use a freshman applicant's ranking on the eligibility index, a transfer applicant's overall grade point average, and a combination of campus-developed supplementary criteria. If you are required to submit scores on either the SAT 1 or the ACT, you should take the test no later than December if applying for the following fall term.

The supplementary admission criteria used by individual campuses to screen applicants appear periodically in the *CSU Review* and are sent by the campuses to all applicants seeking admission to an impacted program.

Unlike unaccommodated applicants to locally impacted programs, who may be redirected to another campus in the same major, unaccommodated applicants to systemwide impacted programs may not be redirected in the same major but may choose an alternative major at the first choice campus or another campus.

Hardship Petitions

There are established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted to a specified campus. Petitioners should write to the Admissions Office about specific policies governing hardship admission.

Reapplication After Failure to Enroll

Applicants who fail to register for the quarter for which they have been accepted will have their admission canceled. Those who desire admission to any future quarter must file another application (with fee) within the stated application period and must meet admission requirements in effect at the time of the new application.

All transcripts on file for applicants who are admitted but do not attend are kept one year and may be used for admission during that period. However, transcripts of any additional work completed since the original transcripts were filed must be requested by the applicant from the college(s) attended as part of the new application procedure.

Readmission

Students who are absent without prior approval for any three of the four consecutive quarters before the quarter they wish to return must apply for readmission. The \$55 application fee is charged except for students who were enrolled during any of the three quarters immediately preceding the quarter of desired readmission. An application with fee also must be filed by any student who enrolls at another institution during an absence, with the following exceptions: a summer session or extension program; dual registration, with prior approval; or concurrent or visitor enrollment at another CSU campus. Students who were disqualified from Cal State L.A. following the last quarter of attendance must file an application for admission as returning disqualified students. For details see Readmission of Disqualified Students below.

Returning Veterans (Military, Alternative Service)

Cal State L.A. students who enter active U.S. military service or approved alternative service are eligible for continuing student status following active service. Time served in active military or approved alternative service, including the entire quarter in which the student entered the service and the entire quarter during which the discharge occurred, will not be

counted as a break in attendance in determining continuing student status.

Readmission of Disqualified Students

Readmission after disqualification is not automatic. Disqualified students will not be considered for readmission until at least two quarters have elapsed. Normally, students will be eligible for readmission when they have satisfied conditions and requirements established during an exit interview. Basic readmission regulations indicate the following: no upper division student (90 or more units completed) will be readmitted with a deficiency of 22 or more grade points for all college work attempted; no lower division student (fewer than 90 units completed) will be readmitted with any grade point deficiency for all college work attempted. Units earned elsewhere while under disqualification can be used to reduce the total grade point deficiency, but not the Cal State L.A. deficiency (which must be removed after readmission).

Before the appropriate deadline, disqualified students must file an application for readmission as returning disqualified students. In addition, they must seek readmission through a petition to the department or division and school from which they were disqualified. The University Academic Advisement Center will rule on petitions for readmission of disqualified students with undeclared majors. Petitions for Readmission from Disqualification may be obtained from department or division offices and applications for readmission to the University are available at Student Affairs 101. Official transcripts of all transfer work attempted since disqualification must be furnished.

Readmission Appeals Procedure

Students who have not met requirements established at the time of the exit interview will be ineligible for readmission and will be so notified by the Admissions Office. Students may appeal this decision by submitting a petition to the dean of their school or to the University Academic Advisement Center if they have not declared a major.

Evaluation of Transfer Credit

Undergraduate transfer students' previous college work is evaluated in terms of its relevance to Cal State L.A. course offerings and degree requirements. An evaluation is mailed to all new transfer and readmitted students during their first quarter of attendance. This evaluation identifies general education and graduation course requirements met by transfer courses and transfer credit accepted in satisfaction of unit requirements. For readmitted students, it also identifies general education and major requirements met by Cal State L.A. courses. The policies of the transfer institution(s) are followed when grade point averages of transfer course work are computed. If such policies cannot be determined, Cal State L.A. policies are followed. Credit for selected vocational/technical courses not generally accepted for transfer credit may be recognized after admission if approved by the Cal State L.A. academic department or division responsible for the related degree program.

Quarter Units/Quarter System

Credits at Cal State L.A. are expressed in quarter units; one quarter unit normally represents no fewer than one hour of class work and two or more hours of outside study per week for one quarter. One and one-half quarter units are equivalent to one semester unit, and one quarter unit is equivalent to two-thirds of a semester unit of credit.

Credit for Community College Course Work

A maximum of 105-quarter units (70 semester units) may be allowed for baccalaureate level credit earned in a community college. Neither upper division credit nor credit for professional education courses is allowed for community college work.

California Articulation Number (CAN)

Cal State L.A. participates in the California Articulation Number System. CAN is a comprehensive system that uses a common number to equate some introductory, transferable, lower division courses commonly taught in the various academic disciplines at an increasing number of California community colleges and four-year campuses. The system ensures that students who complete CAN courses at a participating campus will receive credit "in lieu of" comparable CAN courses at other participating campuses.

For example, CAN ECON 2 (Cal State L.A.'s ECON 202) completed at one campus is acceptable for CAN ECON 2 at other participating campuses. The campuses retain their own numbering systems. CAN course designators are found at the end of each course description in the campuses' general catalogs. Cal State L.A.'s approved courses are so identified and are also listed below. For additional information, contact the Articulation Liaison/CAN Coordinator in the Office of Undergraduate Studies, Administration 725, (323) 343-3917.

Calif. Articulation Number	Cal State L.A. Course
CAN AJ 2.....	CRIM 101
CAN AJ 4.....	CRIM 126
CAN AJ 6.....	CRIM 221
CAN ANTH 2.....	ANTH 260
CAN ANTH 4.....	ANTH 250
CAN ANTH 6.....	ANTH 270
CAN ART 8.....	ART 159
CAN ART 14.....	ART 153
CAN ART 16.....	ART 203
CAN ART 18.....	ART 287
CAN ART SEQ A.....	ART 101ABC
CAN BIOL SEQ A.....	BIOL 101+102+103
CAN BUS 2.....	ACCT 200A
CAN CHEM SEQ A.....	CHEM 101+102+103
CAN CSCI 8.....	CIS 283
CAN DRAM 8.....	TA 141
CAN DRAM 12.....	TAD 131
CAN ECON 2.....	ECON 202
CAN ECON 4.....	ECON 201
CAN GEOG 2.....	GEOG 160
CAN GEOG 4.....	GEOG 150
CAN GEOL 2.....	GEOL 150
CAN GEOL 4.....	GEOL 252
CAN GOVT 2.....	POLS 150
CAN H EC 2.....	NTRS 250
CAN H EC 8.....	NTRS 210
CAN HIST 8.....	HIST 202A
CAN HIST 10.....	HIST 202B
CAN JOUR 4.....	MSCM 100
CAN MATH 8.....	MATH 103
CAN MATH 10.....	MATH 102
CAN MATH 24.....	MATH 215
CAN MATH 26.....	MATH 255
CAN MATH 34.....	MATH 242
CAN MATH SEQ B.....	MATH 206+207+208
CAN MATH SEQ C.....	MATH 206+207+208+209

Calif. Articulation Number	Cal State L.A. Course
CAN PHIL 2.....	PHIL 151
CAN PHIL 6.....	PHIL 250
CAN PHYS SEQ A.....	PHYS 101+102+103
CAN PSY 2.....	PSY 150
CAN SOC 2.....	SOC 201
CAN SPCH 4.....	SPCH 150
CAN SPCH 6.....	SPCH 176
CAN STAT 2.....	MATH 274

Credit for Extension, Correspondence Courses

The maximum amount of credit for correspondence and extension courses that may be applied toward the baccalaureate is 36 quarter (24 semester) units. Extension and correspondence course credit does not satisfy Cal State L.A. residence requirements. Students should consult their major department or division adviser before they enroll in extension or correspondence courses to ensure that courses elected will meet both unit and content requirements for the degree.

No undergraduate degree credit will be allowed for University of California extension courses in the X300 or X400 series taken after Spring Quarter 1968, except as specifically approved by the individual department or division concerned.

Credit for Supplementary Transfer Work

To request evaluation of credit toward a bachelor's degree for work taken at other colleges or universities subsequent to matriculation at Cal State L.A., students must have official transcripts forwarded to the Admissions Office.

Credit for Noncollegiate Instruction

Cal State L.A. grants undergraduate degree credit for successful completion of noncollegiate instruction, either military or civilian, appropriate to the baccalaureate if such credit has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Credit for Military Service

Students are granted nine quarter units of lower division elective credit, upon admission, for one year or more of regular active duty in a U.S. military service with an Honorable Discharge, including completion of basic or recruit training. For six months to one full year of military service, including completion of a six-month reserve training program with basic recruit training, and an Honorable Discharge, 4.5-quarter units of lower division elective credit are granted upon admission. Additional credit to a maximum of 12 quarter units may be granted for completion of certain service school certificate programs, based on recommendations of the Commission on Educational Credit and Credentials of the American Council on Education.

Forms for requesting evaluation of military service credit are available in Student Affairs 101. Students should submit a copy of their military separation, DD214 or equivalent record, with their application for admission. Military service credit is not applied toward the residence requirement.

Credit Certified by the Defense Activities in Nontraditional Education Support (DANTES)

A maximum of 36 quarter units of baccalaureate course credit may be earned for course work certified by the Defense Activities in Nontraditional Education Support (DANTES). Students must have an official DANTES transcript forwarded to the Admissions Office.

Credit for Peace Corps Training

Peace Corps volunteers who completed their training at Cal State L.A. may earn a maximum of 1½ quarter units for each week of the training program. The number of units and the area in which the units are given varies with each project. Grades are recorded as Credit (CR).

Credit for work taken at another institution while in Peace Corps training will be granted by Cal State L.A., but only as it appears on an official transcript from another college or university. The credit will be validated when the volunteer becomes a student at Cal State L.A. or another institution of higher education.

Evaluation of Optional Undergraduate Tests and Examinations

Cal State L.A. grants undergraduate degree credit to students who pass examinations that have been approved for credit systemwide. These include Advanced Placement Examinations, the CSU English Equivalency Examination, and some CLEP examinations, as outlined below. The total credit earned in external examinations that may be applied to a baccalaureate shall not exceed 45-quarter units, exclusive of credit for Advanced Placement examinations.

Advanced Placement Credit

Credit is granted toward undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of 3 or better are granted 9 quarter units (6 semester units) of elective credit for each examination. The appropriate academic department/division determines acceptance of Advanced Placement units for purposes other than electives. Advanced Placement credit will be awarded for students who have had their College Board Grade Report for the Advanced Placement exam sent to Cal State L.A. and have completed one quarter of attendance. Credit is not awarded for any examinations that overlap other examinations or equivalent college courses. Where partial overlap exists, the amount of credit awarded will be appropriately prorated.

Information about Advanced Placement examinations is available at the applicant's high school. Supporting test materials are sent to the college or university indicated by the student when the examinations are taken.

No credit for any examination will be forwarded to a student who has taken the examination previously within the past year; earned equivalent credit through regular course work, credit by another examination, or other instructional processes, such as correspondence study or military training; or earned credit previously in a course or by an examination more advanced than the level represented by the examination in question.

Following is a list of AP examinations for which the University grants credit:

AP Examination	Exam Grade	Course Credit [number of units appear in ()]	Elective Units Awarded
ART:			
STUDIO ART			
General Portfolio	3, 4, 5	Subject to Dept. Rec.	
Drawing Portfolio	3, 4, 5	Subj. to Dept. Rec.	
HISTORY OF ART	3, 4, 5	Subj. to Dept. Rec.	
BIOLOGY:			
Biology majors	3, 4, 5	BIOL 100 (5)	4
Non-biology majors	3, 4, 5	BIOL 155 or 156 (4)	5
CHEMISTRY:			
	3, 4, 5	CHEM 101 (5)	4
COMPUTER SCIENCE:			
Computer Science A	3	CS 201 (4)	5
	4, 5	Subj. to Dept. Rec.	
Computer Science AB	3	CS 202 (4)	5
	4, 5	Subj. to Dept. Rec.	
ECONOMICS:			
Microeconomics	3	ECON 201 (4)	5
	4, 5	Subj. to Dept. Rec.	
Macroeconomics	4	ECON 202 (4)	5
	3, 5	Subj. to Dept. Rec.	
ENGLISH:			
Language and Composition	3, 4, 5	ENGL 101 (4)	5
Literature and Composition	3	ENGL 101 (4)	5
	4, 5	ENGL 101 (4) and ENGL 250 (4)	1
FRENCH: (Level 3)			
French Language	*3	NO Modern language Course Credit	9
	4	FREN 200A (4)	5
	5	FREN 200B (4) and FREN 201 (4)	1
French Literature	*3	NO Modern language Course Credit	9
	4	ML 399 (4)	5
	5	ML 399 (8)	1
GERMAN: (Level 3)			
German Language	*3	NO Modern language Course Credit	9
	4	NO Modern language Course Credit	9
	5	GERM 100C (4)	5

AP Examination	Exam Grade	Course Credit [number of units appear in ()]	Elective Units Awarded
GOVERNMENT and POLITICS:			
United States	3, 4, 5	Subj. to Dept. Rec.	
Comparative	3, 4, 5	Subj. to Dept. Rec.	
HISTORY:			
United States History	3	HIST 202A (4) OR HIST 202B (4)	5
	4, 5	HIST 202A (4) and HIST 202B	1
European History	3	HIST 110A (4)	5
	4, 5	HIST 110A (4) and HIST 110B OR HIST 110C (4)	1
LATIN:			
Literature - Vergil	*3	NO Modern language Course Credit	9
	4	LATN 100C (4)	5
	5	LATN 100C (4) and LATN 222 (4)	1
MATHEMATICS:			
Calculus AB	3, 4	MATH 206 (4)	5
	5	MATH 206 (4) and MATH 207 (4)	1
Calculus BC	3	MATH 206 (4)	5
	4, 5	MATH 206 (4) and MATH 207 (4) OR MATH 242 (4)	1
MUSIC THEORY:			
	3, 4, 5	Subj. to Dept. Rec.	
PHYSICS:			
Physics B Physics C	3, 4, 5	PHYS 202 (4)	5
Non-Physics Majors	3, 4, 5	PHYS 201 (4)	5
Physics and Engr Majors	3, 4, 5	PHYS 203 (4)	5
PSYCHOLOGY:			
	3, 4, 5	Subj. to Dept. Rec.	
SPANISH:			
Spanish Language	*3	NO Modern language Course Credit	9
	4	SPAN 200A (4) OR SPAN 205A (4)	5
	5	SPAN 200BC (8) OR SPAN 205AB (8)	1
Spanish Literature	*3	NO Modern language Course Credit	9
	4	**Modern language 399 (4)	5
	5	**Modern language 399 (8)	1

*Effective Fall Quarter 1994, a score of "3" on a language or literature AP examination does not receive any course credit.

Transfer of Credit Earned by Examination

Credit earned by examination at another accredited institution is accepted upon transfer if the units have been accepted by the previous institution as equivalent to specific courses and are not in violation of any other regulation.

College Level Examination Program (CLEP)

Credit is awarded for successful performance in certain examinations of the College Level Examination Program. Four quarter units may be earned in any of the following examinations, with passing scores as indicated.

Name of Examination	Minimum Passing Score
College Algebra-Trigonometry	49
Calculus with Elementary Functions	51
General Chemistry.....	48
CEEB Advanced Placement Program Examinations ..	3, 4, 5

Credit for one examination in mathematics may be applied to the mathematics requirement of the general education program. Credit for additional examinations is allocated to electives; acceptance for major, minor, or prerequisite use is granted on approval of the appropriate academic department or division.

American Chemical Society Examination

Students may earn four quarter units of credit by achieving a score at or higher the 50th percentile on the General Chemistry examination offered as part of the American Chemical Society Cooperative Examination Program.

Free Summer Quarter Plus (FSQ+) Program

Students who are interested in enrolling in the FSQ+ Program must submit a special FSQ+ Application before March 1 for continuing Cal State L.A. students and first-time freshmen, and before April 1 for transfer students to be eligible for priority registration for the summer term. **The FSQ+ Application is separate from the application to Cal State L.A.** FSQ+ applications are available in the following locations:

- Office of Admissions and Outreach
- University Student Union Information Desk
- Library Reference Desk
- School-Based Advisement Centers

Students who enroll in the FSQ+ program are required to submit a \$250 Enrollment Confirmation Deposit. Students can pay this deposit at the cashier's office by April 15 or apply for a deferment, which will allow the University to deduct the \$250 from their fall Financial Aid Award. The \$250 is held in a special account and applied to the FSQ+ student's winter or spring quarter fees, it is not an additional fee. Students who are interested in the Enrollment Confirmation Deposit Deferment should refer to the Financial Aid Section of the catalog.

Graduate and Postbaccalaureate Admission Requirements

Desirable Student Qualifications

To gain maximum benefit from postbaccalaureate or graduate study, students should possess the following:

- Sufficient knowledge and understanding of their chosen field of study to pursue it effectively at an advanced level.
- Basic techniques, skills, and methods necessary for research investigation and other practical applications of knowledge.
- Sufficient maturity and intellectual curiosity to pursue independent study and learning beyond regular assignments.
- Achievements, aptitudes, and abilities at superior levels to ensure scholarly performance considerably above the average.

Responsibility of the Student

Responsibility for meeting all requirements and following all procedures by the published deadlines rests with the student. In extraordinary circumstances, exceptions to requirements for graduate study established by departments/divisions, schools, and the university may be granted.

General Requirements

Graduate and postbaccalaureate applicants may apply for a degree objective, a credential or certificate objective, or may have no program objective. Students who wish to pursue a second baccalaureate are considered postbaccalaureate applicants and must meet the admission requirements for graduate and postbaccalaureate study (see the section about Second Baccalaureate Applicants in the Admission section of

this catalog). Depending on the objective, the CSU will consider an application for admission as follows:

The minimum requirements for admission to graduate and postbaccalaureate studies at a California State University campus are in accordance with University regulations as well as Title 5, Chapter 1, Subchapter 3, of the *California Code of Regulations*. Specifically, a student shall:

- have completed a four-year college course of study and hold an acceptable baccalaureate from an institution accredited by a regional accrediting association, or have completed equivalent academic preparation as determined by the appropriate campus authorities.
- be in good academic standing at the last college or university attended.
- have attained a grade point average of at least 2.5 (A=4.0) in the last 90 quarter (60 semester) units attempted. (The entire quarter or semester in which the 90 quarter [60 semester] units began will be used in this calculation.)
- satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe.

Students who meet the minimum requirements for graduate or postbaccalaureate studies will be considered for admission in one of the four following categories:

Postbaccalaureate Unclassified

To enroll in courses for professional or personal growth, students must be admitted as postbaccalaureate unclassified students. By meeting the minimum requirements, they are

eligible for admission as postbaccalaureate unclassified students. Some departments and divisions may restrict enrollment of unclassified students because of heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of, consideration for admission to any other graduate degree or credential program; or

Postbaccalaureate Classified

To enroll in a credential or certificate program, students will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

Graduate Conditionally Classified

Students may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, they can remedy deficiencies by additional preparation; or

Graduate Classified

To pursue a graduate degree, students will be required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

Admission to a California State University campus with postbaccalaureate unclassified standing does not constitute admission to graduate degree curricula. Also, individual schools and departments or divisions may have additional requirements which students must fulfill before they may be accepted into degree, credential, and certificate programs at Cal State L.A.

Some applicants are initially admitted to Cal State L.A. in postbaccalaureate unclassified standing. Those who meet all requirements for any other category may achieve such standing before their first quarter of enrollment. Applicants not regularly admissible may petition for admission by special action as described later in this chapter.

Additional general procedures and regulations that apply to all applicants, graduate and undergraduate, are described earlier in this chapter.

Special Action Admissions

In unusual circumstances, a campus may make exceptions to admission criteria and grant admission by special action. For special action admission, applicants who were in good standing at the last college attended, but who do not meet the mandated admission requirements may petition for admission by special action if acceptable alternative evidence exists that they possess sufficient academic, professional, and other potential pertinent to their proposed graduate objective. Special action admission may be granted by the appropriate school graduate dean upon recommendation of both the proposed major department or division and school graduate studies committee for any of the following three reasons:

1. Applicants Who Lack Minimum Required Grade Point Average

Students admitted by special action to pursue a master's degree program will be admitted to conditionally classified graduate status and must complete specific prerequisites and a minimum of 14 units of qualifying courses specified by the major department or division and school graduate dean with a minimum B (3.0 on a scale in which A = 4.0) grade point average, as specified under Requirements for Classified

Graduate Standing later in this chapter. Students admitted to pursue a nondegree program (e.g., credential, certificate) must complete special requirements as designated by the major department or division and school graduate dean.

2. Graduates of Unaccredited Institutions

A degree from an unaccredited college is not recognized for admission in postbaccalaureate or graduate standing. Graduates of such institutions may be admitted in undergraduate standing if course work completed is deemed acceptable and meets undergraduate admission requirements, and may be granted postbaccalaureate or graduate standing upon satisfaction of the following conditions:

- Meet the minimum University, school, and department or division requirements for admission to classified graduate standing in a degree program.
- Complete a minimum of four upper division courses (at least 14 quarter units), specified in advance by the proposed major department or division, with a grade point average of at least B (3.0). These courses may not be 500 level. Upon recommendation of the department/division and the school graduate dean, 400-level qualifying courses may be applied to the master's degree program.
- Receive the written recommendation of the department or division in which the degree is sought and of the appropriate school graduate dean.
- An applicant with a bachelor's degree from an unaccredited institution and a master's degree from an accredited institution may be admitted as a regular postbaccalaureate or graduate student, assuming that all other requirements have been met and that appropriate approvals have occurred.

3. Graduates of Specialized or Professional Schools

Graduates of specialized or professional schools that are professionally accredited are admitted in conditionally classified graduate status. They may be granted classified graduate standing by satisfying the following conditions:

- Meet the minimum University, school, and department or division requirements for admission to classified graduate standing in a degree program.
- Complete a minimum of four upper division qualifying courses (at least 14 quarter units), specified in advance by the proposed major department or division, with a grade point average of at least B (3.0). After they have completed their faculty-approved list of qualifying courses, students may not add any additional courses, nor may they repeat any of the qualifying courses, to raise their grade point average.
- Receive the written recommendation of the department or division in which the degree is sought and of the appropriate school graduate dean.

International (Visa)

Student Admission Requirements

The CSU must assess the academic preparation of international (visa) students. For this purpose, international (visa) students include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of international (visa) students.

Verification of English proficiency (information about the TOEFL requirement appears earlier in this chapter), financial resources, and academic performance are all important considerations for admission. Academic records from foreign institutions must be on file at least eight weeks before registration for the first term and, if not in English, must be accompanied by certified English translations.

California residents receive admission priority. There is little likelihood of nonresident applicants, including international students, being admitted to either impacted majors or to those with limited openings. Consult individual academic departments/divisions for specific program requirements and limitations.

For admission in postbaccalaureate or graduate standing, international applicants must fulfill the following minimum requirements:

- Possess a baccalaureate, or its equivalent, from an accredited institution.
- Have a minimum 2.5 grade point average (A=4.0) in the last 90 attempted quarter units equal to that required for admission to classified graduate standing.
- Have approval of the academic department or division that offers the desired degree program.

International students should contact International Student Services for information about housing, financial assistance, and related matters.

Graduate and Postbaccalaureate Applications Procedures

All graduate and postbaccalaureate applicants (e.g., master's degree applicants, those who are seeking credentials, and those who are interested in taking graduate-level courses for personal or professional growth) must file a complete graduate application as described in the graduate and postbaccalaureate admission booklet. The only exceptions are postbaccalaureate applicants who are pursuing a second baccalaureate. These students must file an undergraduate admission application, even though they are subject to the graduate admission requirements. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternate campuses or later changes of campus choice will be minimal. To be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each. Applications may be obtained in Student Affairs 101 or from the Graduate Studies Office of any California State University campus in addition to the sources noted for undergraduate applicants.

Postbaccalaureate applicants who completed undergraduate degree requirements and graduated from Cal State L.A. the preceding quarter are also required to complete and submit an application and the nonrefundable application fee.

The CSU uses separate requirements and application filing dates in the admission of international (visa) students. For these purposes, international (visa) students are residents of a country other than the United States or who hold visas as students, exchange visitors, or one in other nonimmigrant classifications.

Some academic departments/divisions require applications to their respective graduate programs in addition to the University admission application and may have earlier deadlines than the University admission application deadline. Applicants should contact individual departments/divisions for further information or refer to individual programs later in this catalog.

Students accepted at Cal State L.A. for postbaccalaureate or graduate study must enroll in the quarter for which application was made. Failure to enroll will result in cancellation of admission; see "Reapplication after Failure to Enroll" earlier in this chapter.

Application Filing Periods

Terms in 1999—2000 and 2000—2001	Applications First Accepted	Student Notification Begins
Summer Quarter 1999	Feb. 1, 1999	March 1999
Fall Quarter 1999	Nov. 1, 1998	Dec. 1998
Winter Quarter 2000	June 1, 1999	July 1999
• Spring Quarter 2000	Aug. 1, 1999	Sept. 1999
Summer Quarter 2000	Feb. 1, 2000	March 2000
Fall Quarter 2000	Nov. 1, 1999	Dec. 1999
Winter Quarter 2001	June 1, 2000	July 2000
Spring Quarter 2001	Aug. 1, 2000	Sept. 2000

Filing Period Duration

Each campus accepts applications until capacities are reached. If applying after the initial filing period, consult the campus Admissions Office for current information.

Application filing periods for International (Visa) Applicants

Application filing periods for international (visa) applicants differ from those for domestic applicants because of additional time required in evaluating records and preparing necessary documents for the Immigration and Naturalization Service (INS). The filing periods are established as follows:

Quarter	Application Filing Period
Fall Quarter	November 1–30
Winter Quarter	June 1–30
Spring Quarter	August 1–31

The Admissions Officer may waive this advance application requirement if circumstances warrant. In addition to the academic requirements outlined below, international students must have competence in the English language, financial resources adequate to provide for all expenses during their period of study at Cal State L.A., and must be in good health. Those admitted to this country on the basis of acceptance by another college are expected to complete at least one year at that college before applying for admission to Cal State L.A.

Application Acknowledgment

Normally, applicants may expect to receive an acknowledgment of their application from their first-choice campus within two to four weeks of filing the application. A notice that space has been reserved will also include a request to submit the records (transcripts and test scores) necessary for the campus to evaluate qualifications. They may be assured of admission if the evaluation of qualifications indicates that they meet admission requirements. Such a notice is not transferable to another term or to another campus.

Transcript Requirements

Applicants with either a degree or credential objective must request that two copies of official transcripts from each college or university previously attended be sent directly to the Admissions Office. Applicants who are required to have one copy of their transcripts sent to an academic department or division as part of their major program application and those applying without a degree or credential objective are required to have only one copy of each transcript sent to the Admissions Office.

All transcripts become Cal State L.A. property and will not be released or copied except for those that applicants request be redirected to another CSU campus. Processing of applications cannot be guaranteed unless all required documents are received during the designated application period. Individuals who do not file an application for admission are advised that transcripts are retained for one year, after which they are destroyed.

Test of English as a Foreign Language (TOEFL) Requirement

All graduate and postbaccalaureate applicants, irrespective of citizenship, who do not possess a bachelor's degree from a

postsecondary institution where English is the principal language of instruction must achieve a minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 213 on the computer-based TOEFL. Those who plan to pursue an M.A. degree in Teaching English to Speakers of Other Languages (TESOL) must achieve a minimum TOEFL score of 600 on the paper-based test or 250 on the computer-based test.

In exceptional cases, the Director of Admissions and University Outreach may waive the TOEFL score requirement if recommended by the applicant's proposed major department or division and the school graduate dean. Variation from the minimum TOEFL score will be considered only for applicants with a B (3.0) grade point average as evaluated by the Admissions Office and whose TOEFL score is not more than ten points below 550 on the paper-based test, or 6 points below 213 on the computer-based, test. This consideration does not apply to applicants who are pursuing a M.A. degree in Teaching English to Speakers of Other Languages (TESOL).

To obtain TOEFL registration materials and test dates, write to:

Educational Testing Service
P. O. Box 6154
Princeton, New Jersey 08541-6151

You also may contact the U. S. embassy in your country for TOEFL information. Request that your TOEFL test results be sent directly to California State University, Los Angeles (institution code 4399).

Student Services and Financial Aid

Center for Career Planning and Placement

Center for Student Financial Aid

Scholarships

New Student Orientation Programs

Educational Participation in Communities (EPIC)

Early Entrance Program (EEP)

Campus Ministries

University Learning Services

Student Health Services

Other Services and Programs

Student Housing — Living on Campus

University-Student Union

Veterans' Services

Children of Disabled Veterans

Student Activities — Special Interest Groups

Student Publications

Theatrical Productions

Student Services and Financial Aid

Faculty and professional staff provide education-related services for students within several centers and offices. These include the University Academic Advisement Center, the University Tutorial Center, the University Testing Center, the University Writing Center, the Center for Career Planning and Placement, the Student Health Center, the Center for Student Financial Aid, the Office for Students with Disabilities, and the offices of Admissions and University Outreach, International Student Services, and Housing and Residence Life. Additional services are provided by various areas of the campus. In addition, many departments, divisions, and schools offer students opportunities for involvement in campus life.

Center for Career Planning and Placement

General Information

Home Page: www.calstatela.edu/univ/cdc

Hours of Operation:

Mon./Thurs.	8:00 am – 6:00 pm
Tues./Weds.	8:00 am – 7:30 pm
Friday	8:00 am – 4:00 pm
Appointments/Information	(323) 343-3237
Cooperative Education	(323) 343-3283
On-Campus Interviews	(323) 343-3294
Educational Placement	(323) 343-3290

Students are required to show a valid Cal State Student I.D. or Alumni Card (Career Center or Alumni Association) to enter the Career Center.

Career Counseling

Choosing an academic major and investigating career options (graduate programs, professional schools) are important career planning steps. Integrating all of the details of a job search is an important career placement procedure. Professional career counselors are available by appointment and on a limited walk-in basis for individual consultation about these issues.

UNIV 298

This 2-unit course (graded CR/NC) is offered, in conjunction with Cooperative Education, to assist students in relating their major to careers and in developing and preparing for work opportunities directly related to their major. This interactive class helps students develop their full potential and provides career planning tools to translate academic training into a satisfying career. UNIV 298 is offered each quarter, and students can register through STAR.

Workshops

A variety of workshops is offered to assist students in their job search. Workshops address such topics as interview techniques, résumé writing, and job search strategies. A workshop schedule may be obtained by visiting the Career Center at the beginning of each quarter.

Career Development Resources

Computer-Assisted Guidance

The center offers a variety of technological tools to assist with planning and placement.

Career Assessment Instruments

The Strong Interest Inventory (SII), Self-Directed Search (SDS), and Myers-Briggs Type Indicator (MBTI) are offered by individual appointment. A small fee is charged for each instrument.

Choices

This computer-assisted career assessment program focuses on interests, experiences, and work-related values and provides job titles, descriptions, employment outlook information, and information about colleges and universities across the U.S.

Career Resource Library

The Center maintains a comprehensive collection of the following career materials and information:

- Numerous books that relate majors to careers.
- Information about interviewing techniques, résumé and cover letter writing, and job search strategies.
- Salary surveys and labor statistics.
- Video tapes about interviewing, résumé writing, and employers, including school districts.
- Career binders that describe a variety of occupations.
- College and university catalogs.
- Civil service information.
- Brochures and annual reports about firms that recruit on campus.
- Study guides for admission tests required for admission to graduate and professional schools.
- Computers for student use for Internet, job search, career research, résumé preparation, and career assessment.

Placement

Student Employment

Student Employment offers a valuable service for students who seek part-time employment. There are two types of programs on campus:

Student Assistant:

Students are employed to assist faculty and staff on a part-time basis, maximum of 20 hours per week, in many of the offices and departments and divisions of the University. Students may consult the Student Employment Office for specific policies about these positions.

Federal Work-Study (FWS):

This Federal Financial Aid program is intended to increase part-time employment opportunities and to assist financially-eligible students. Determination of eligibility for the FWS award is made by Student Financial Aid office, Student Affairs 124. Job openings are listed by categories on display boards in the Center.

Job Location and Development Program

The Job Location and Development (JLD) program provides the development of off-campus part-time employment for any student. The purpose of JLD is fulfilled through many types of student employment programs:

Job Referral:

Through the Job Referral program, a wide range of vacancies in business, industry, civil service, and education is made available to the campus community. Job vacancies are listed in the Career Center and are updated daily.

Internships/Cooperative Education:

Internships may be paid or unpaid and offer students hands-on experience in their major discipline. Cooperative Education positions are internships that enable students, with department/division approval, to earn elective credit toward an academic major or minor. Current listings are available in the Career Center. During spring and fall quarters, some firms will interview students on campus for these positions.

Off-Campus Federal Work-Study:

This especially exciting type of experiential education that provides employment for students who have a Federal Work-Study award combines community service with active learning. Current openings are listed in the Career Center.

On-Campus Interviews

The Career Center coordinates interviews for seniors, recent graduates, and alumni with representatives of business, industry, and government agencies. Interviews for full-time career-related positions take place in the Career Center in the fall and winter/spring.

Educational Placement Program

The Educational Placement Program assists students and alumni who seek career employment related to credential programs. The placement file forwarding service allows students and alumni to house letters of recommendation and directed teaching evaluations in a professional reference file at the University. Upon a candidate's request, copies of the file contents are forwarded to school districts and other hiring agencies. A fee may be charged for this service.

The **Education Expo**, a career and interview fair for education majors, is held each spring quarter. Check with the Educational Placement Program (Career Center, Lower Level) at the beginning of each spring quarter for details.

Career/Job Fairs

Each year, more than 200 employers visit the campus during the fall and spring quarters to participate in the Career/Job Fairs. The representatives are interested in students from a variety of majors and a wide range of experiences.

Alumni Program

This program allows alumni to use career planning and placement services. A nominal annual fee may be charged depending on their Alumni Association status and the services chosen. Available services may include:

Job listings in the Career Center and about JobTrak

- Use of the Career Resource Library
- Individual appointments with a career counselor
- Participation in workshops and career information programs
- Use of computer-assisted programs
- Participation in on-campus interviews, limited to a space-available basis (Cal State L.A. graduates only)
- Attendance at all Career/Job Fairs

Center for Student Financial Aid

The Center for Student Financial Aid, located in Student Affairs 124, helps students find resources to finance their education at Cal State L.A. To meet students' financial needs, the center administers a variety of scholarships, grants, work, and loan programs. The center is open Monday through Friday for general questions. Financial aid advisers are available Monday through Thursday.

To apply for financial assistance, students must submit a Free Application for Federal Student Aid (FAFSA), which is evaluated to determine their financial aid eligibility. Students may obtain this form at the Center for Student Financial Aid, at any college financial aid office, or in high school guidance offices. All applicants are notified by mail about their eligibility for financial aid.

Financial Aid Programs

Students who submit a completed FAFSA are considered for:

Grants

Federal or state funds that do not have to be repaid.

Loans

Federally-guaranteed student loans with low interest rates that students must repay starting six months after they graduate or drop below half-time status, depending on the contract.

Employment

On-campus student work opportunities offered by the Federal Work-Study Program. The Center for Career Planning and Placement assists in job placement.

Need Analysis and Eligibility

Aid eligibility is determined from information submitted on the FAFSA. An analysis determines how much the family is expected to contribute to a student's education for one academic year. A Congressionally-mandated formula used to determine financial need subtracts the expected family contribution from the estimated annual cost of education; the difference constitutes the student's financial need.

To learn more about financial aid at Cal State L.A., visit the Web site: www.calstatela.edu/univ/finaid.

Free Summer Quarter Plus Program: Enrollment Confirmation Deposit Deferral

All students who enroll in the FSQ+ Program are required to make a \$250 Enrollment Confirmation Deposit. Students who are eligible to receive financial aid may be eligible for a deferment. Those who wish to defer their \$250 deposit must complete and submit a *Request to Defer FSQ+ Enrollment Confirmation Deposit* form by April 1 to the FSQ+ Office.

Students who are granted a deferment will have the \$250 Enrollment Confirmation Deposit deducted from their fall financial aid award and reapplied to their winter or spring quarter fees. Students who are denied the deferment must pay the \$250 deposit to the Cashiers' Office by April 23. Students whose deposit is not received by April 23 will not be permitted priority registration for the summer quarter.

Scholarships

The Cal State L.A. scholarship program comprises more than 300 scholarships. Most are awarded to students who already attend Cal State L.A., based on academic achievement, campus and/or community participation, and/or financial need. Some scholarships are intended for students who are enrolled in specific majors; others are open to qualified students in all majors.

Students should file a General Scholarship Application and submit one letter of recommendation in April to the Scholarship Office, Student Affairs 118, to automatically be considered for all institutional scholarships for which they are qualified.

Scholarships Available at Cal State L.A.

School of Arts and Letters

Francesca Alexander CFA-LA Memorial

Art Department

Art Department Memorial
Ronald Silverman Endowed
Joseph G. Uribe Memorial

Communication Studies Department

Hilton
Floyd J. Miller Memorial
Marcella Oberle
Brad Pye, Jr.
Paul Scott

English Department

Wm. Leary and Irwin Swerdlow
Clayton and Patricia Matthews
Dorothy C. McKenzie Memorial
John A. Palmer Graduate
Potter-Raskin
Frederick Shroyer Memorial
Susan B. Wilstein Honor

Modern Languages and Literatures Department

Florence Bonhard
Japanese Studies
Major Tsai Award in Chinese Studies
Howard Starret Memorial

Music Department

Esther Andreas
Andreas-Jackson
Helen E. Culver Musicology
Michael Feinstein Competition
Friends of Music/Mary Levin Cutler
Friends of Music/Lu Elrod
Friends of Music/George and Ira Gershwin
Friends of Music/John Greenlee Memorial
Friends of Music/Charles Hubbard
Friends of Music/Herman-Kenton
Friends of Music/Charles Hubbard
Friends of Music/Florence LaRue
Friends of Music/Susann McDonald
Friends of Music/Mona Paulee
Friends of Music/Leonard Pennario
Friends of Music/Dr. Robert Strassburg
Friends of Music/Olga Termini
Friends of Music/Harry Warren Memorial
Hugh E. Mullins Memorial
Inez Schubert
Zack Memorial

Theatre Arts and Dance Department

Loretta Bunch
Maris Ubans
Boland Wilson

School of Business and Economics **

Edward and Godfrey Families
Farmers Insurance Group
Founders Savings and Loan Association
H. Jean Waldrop
Julie Wilstein Memorial

Accounting Department

Accounting Department
E. Kennedy Cobb
Jessie and Marie Gustafson
Public Accounting
Joseph T. Taylor Memorial

Economics and Statistics Department

Ted Berkowitz Urban Economic Development
Department of Economics and Statistics/Donald Moore
Meritorious Achievement
John Norby
Saleha

Marketing Department

Edward L. Butterworth (Fedco)
William S. Davila (Vons Companies, Inc.)
Frank DeSantis Family Management
Raymond E. Klauer (May Co. of California)
Institute of Retail Management
Louis A. Kwicker (Wherehouse Entertainment)
M. W. Proudfoot (The Broadway)
Eve Rich (Contempo Casuals)
Alfonso Schettini (Robinson's)
Vance L. Stickell (Los Angeles Times)
Wilfred C. Stroud (Strouds)
William Yingling, III (Lucky Stores)

*** Scholarships in these schools may show a preference for students in a certain option or area of concentration within a particular major.*

Charter School of Education **

Georgia May Adams Memorial
Mary Ann Alia Memorial
Brodwin Family
Alpha Psi Chapter, Pi Lambda Theta
California Retired Teachers Association, Los Angeles
California Retired Teachers Association, Pasadena-Foothill
California Retired Teachers Association, Laura E. Settle
Charter School of Education Endowed
Cleo Cook Memorial
Friends of the Charter School of Education
Eduardo Gaytan
Mort Herz
Andy and Phyllis Krinock
Lena and Dominic Longo
Longo Fellowship
Fred Lull
Jane Matson Memorial
C. Lamar Mayer Special Education
Susan Beyer Nichols
Numrich Family
M. I. Pennick
Nina Elloway Putnam Memorial
Trixie Ann and Delwyn G. Schubert
Carol J. Smallenburg
Harry Smallenburg

Charter School of Education ** (cont'd)

Margaret A. Thornton
Marian E. Wagstaff

School of Engineering and Technology **

California Council of Civil Engineering and Land Surveyors
Fire Protection Administration
Richard A. Griffin Memorial
Kenneth Hayworth Memorial
Richard J. Hoffman Memorial
Sean King Memorial
LA DWP/Alex Radin
Ray and Kathy Landis
MESA Engineering Program
Martin Roden Electrical Engineering
Barbara and Clem Savant Sikand
David and Susan Wilstein
Fred W. Zahrt, Jr., Epsilon Pi Tau Memorial

*** Scholarships in these schools may show a preference for students in a certain option or area of concentration within a particular major.*

School of Health and Human Services

Founders and Pioneers – E. Grant
Anthony Means Memorial
Roybal Gerontology
Ruth Wu Endowed

Child and Family Studies Department

Association for Education of Young Children
Edward L. Butterworth (Fedco)
William S. Davila (Vons Companies, Inc.)
Friends of Child Development
Marion and Louie Fiske Memorial
Bertha Gregory Achievement Award
Raymond E. Klauer (May Co. of California)
Louis A. Kwicker (Wherehouse Entertainment)
M. W. Proudfoot (The Broadway)
Eve Rich (Contempo Casuals)
Vance L. Stickell (Los Angeles Times)
William Yingling, III (Lucky Stores)

Communication Disorders Department

Jack G. Chin Memorial
Janet Jeffers

Criminal Justice Department

Department of Criminal Justice
Rosalyn Jung Memorial

Health and Nutritional Sciences Department

Adele Davis
Saxon C. Elliot
Arthur Kong Memorial Research

Nursing Department

Alhambra Community Hospital
Alpha Tau Delta
American Association of Critical Care Nurses
Associates for the Advancement of Nursing
Auxiliary of Garfield Hospital
California Nurses Association
Council of Black Nurses
Esther Walker Bucciari
Athalie Clarke
Dalby/Proudfoot Nursing
Bonnie Fraser Lemus
Minority Health Professions Education Foundation*
National Student Nurses Association
Louise Savage Memorial
Sigma Theta Tau
Veterans Administration*

**Awards require commitment to work in designated facilities after graduation*

School of Natural and Social Sciences

Francesca Alexander CFA-LA Memorial
Professor Lester M. Hirsch

Anthropology Department

David Miller

Biology and Microbiology Department

Alpha Therapeutic Corp.
Lupe Elias-Exposito Memorial
Ron and Nan Okum
J. Sacher Memorial
Elizabeth Tamblyn Memorial

Chemistry and Biochemistry Department

Alpha Therapeutic Corp.
Anthony J. Andreoli Memorial
Douglas L. Currell
Northrup Corporation Scholarship
Phoebe Dea Analytical Chemistry
Lloyd N. Ferguson
Jacob Patlan
Jack Spielman Memorial

Chicano Studies Department

New World Endowed
Urban Pacific Development Corp.

Geography and Urban Analysis Department

G. Etzel Percy Memorial

Geological Sciences Department

Robert Bean
Chance and Dana
Bill Liebman – Cal Seismics
Robert Stone
Martin L. Stout
Aaron Waters

History Department

Abd Al-Malik
Dr. Timothy F. Harding
William E. Lloyd
Dr. and Mrs. David Miller
Howard Starret Memorial

Latin American Studies Program

Donald W. and Marjorie Woodford Bray
Dr. Timothy F. Harding
David Miller
New World Endowed

Mathematics and Computer Science Department

Charles Clark
Farmers Insurance Group
Lewis and Urner

Physics and Astronomy Department

Larry Chu–Physics
Lester Hirsch
John Munger
Fried Stahl

Political Science Department

Hector Elizalde
William E. Lloyd
Ake Sandler

Psychology Department

Georgia May Adams Memorial
Charles Wang

Sociology Department

Francesca (“Kiki”) Alexander
David Miller
Richard and Erika Nahrendorf

General

Alumni Association
 Angel/Dodger Wives
 Asian Support Group
 Associated Students
 Barnes and Noble/UAS
 Joyce Bourke Memorial
 CSU Scholarship Program for Future Scholars
 Ochari D'Aiello
 Eagles Print 'n Post Endowed
 Emeriti
 General Education Honors
 General Motors/EEOC
 Graduate Equity
 John A. Greenlee Memorial
 Howard P. ("Hap") Holladay
 Robert Hohmann Endowed
 B. L. Hoyt Memorial
 Los Angeles Times
 Rosemary Low
 Dr. Juanita Mantovani Memorial
 Mattel
 Maryann C. Moore Memorial
 Marge Morrison Mitchell
 Mabel Wilson Richards
 George P. Smith Memorial
 Theophilus Smith
 Derick and Yoko Tagawa/Lee Grant
 TELACU
 Trustees' Award for Outstanding Achievement

Alan Pattee Scholarships

Children of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of law enforcement or fire suppression duties are not charged fees or tuition of any kind at any California State University campus, according to the Alan Pattee Scholarship Act, *California Education Code*, Section 68121. Students who qualify for these benefits are known as Alan Pattee scholars. For more information, contact the Cashiers' Office, (323) 343-3630.

New Student

Orientation Programs

Orientation programs are planned to introduce new students of all class levels (including graduates) to Cal State L.A. These programs are usually held shortly before registration; the dates appear in the *Schedule of Classes* each quarter. Participating students are welcomed by campus administrators and student leaders, given valuable information by faculty advisers, invited to participate in small group sessions with trained student leaders, and assisted in registering for classes. Individual questions are answered and valuable contacts made. More information is available at the University and Orientation Office at (323) 343-3195.

Educational

Participation in Communities

EPIC is the University's student volunteer center. EPIC encourages Cal State L.A. students to become involved in off-campus community service. Volunteers gain valuable paraprofessional experience and personal development as tutors, hospital aids, teaching aides, counselors, probation officer aides, recreation leaders, etc. Several departments offer academic credit for student participation in community service activities. The EPIC office is located in the Career Center.

Early Entrance Program (EEP)

Cal State L.A.'s Early Entrance Program (EEP) serves highly gifted students who need the academic challenges of a university environment to develop intellectually, but who are chronologically younger than traditional undergraduates and have not yet graduated from high school. Students who are younger than 16 years old at the start of the summer quarter, but are at least 11 years old are eligible for the EEP. Participation is open by invitation, and admission is based on performance in an academic assessment inventory administered by the program director, personal interview of the applicants and their parents, and the completion of a provisional quarter of study. Some of the qualities needed for admission include, but are not limited to, maturity, academic talent and need for acceleration.

Those students whose academic and personal performances are judged adequate and appropriate are admitted to the EEP after final approval from the Faculty Admission committee. Regular meetings with EEP staff, participation in scheduled activities and enrollment as a full-time, degree-seeking undergraduate is required. EEP students are responsible for tuition identical to other CSU students but are eligible for financial aid and scholarship assistance. Upon admission, EEP students are admitted to the University's General Education Honors Program. For further information please contact the EEP at (323) 343-2287, fax (323) 343-5574 or visit our website at www.calstatela.edu.

Campus Ministries

Campus Ministries provides a place for spiritual and individual support services for students in an interfaith setting. Pastoral counseling, personal growth workshops (e.g., self-esteem, conflict resolution and stress reduction), community and social service, and religious services are provided to interested Cal State L.A. students.

University Learning Services

Academic Advisement Center

The University Academic Advisement Center, located in the Library, Palmer Wing 1040A, provides advisement for undergraduate students who have not declared a major. Special attention is given to general education, electives, and selection of an academic major. Walk-in requests are honored, depending on staff availability, but students are encouraged to make an appointment by calling the center at (323) 343-3150.

Study Skills Workshop Program

The University Tutorial Center, located in the Library, Palmer Wing 1039, offers study skills workshops covering such topics as time management, note-taking, textbook reading, and test-taking to guide and assist students to become confident, effective, independent learners. For more information, call (323) 343-3971.

Student Support Program

The Student Support Program (SSP) is a federally-funded program that operates under the auspices of the U.S. Department of Education. SSP assists participants in obtaining a university degree by providing the necessary support services needed for success in college. Low-income students, first-generation college students, and students with disabilities are eligible for SSP services. SSP assists participants with developing academic English, mastering course content through study groups, reading improvement, counseling, and advisement. The SSP office is located in the Library, Palmer Wing 1040C, (323) 343-3965.

University Testing Center

The University Testing Center, located in the Library, Palmer Wing 2097, (323) 343-3160, administers the American College Test (ACT), English Placement Test (EPT), Entry Level Math (ELM) exam, Scholastic Aptitude Test (SAT), the University's Writing Proficiency Examination (WPE), and placement examinations for chemistry, engineering, mathematics, and nursing courses. In addition, information bulletins for national and local testing programs, such as the California Basic Educational Skills Test (CBEST), are available.

English Placement Test (EPT) and Entry Level Mathematics (ELM) Examinations

The EPT and ELM are given once each quarter and are required before enrollment in English and Mathematics courses as described in the **Admissions** chapter. The testing dates appear each quarter in the *Schedule of Classes* and are available in the University Testing Center.

All nonexempt undergraduates must complete the EPT and ELM after admission and before their first enrollment in courses at Cal State L.A.

Writing Proficiency Exam (WPE)

Information about the WPE is available in the University Writing Center, located in the Library, Palmer Wing 2098. Students who receive a No Credit (NC) on the WPE must make an appointment to see a WPE consultant in the University Writing Center.

University Writing Center

The University Writing Center, located in the Library, Palmer Wing 2098, provides individual and group tutoring, writing

workshops, and other services to meet the writing needs of undergraduate and graduate Cal State L.A. students. Writing tutors are trained to provide constructive feedback and to assist students in recognizing and overcoming their writing problems. Tutors help students to get started, generate ideas, organize materials, and revise and proofread papers. Writing workshops are offered about a variety of writing-related topics such as *Organizing your Essay*, *Learning to Proofread*, and *Writing the Research Paper*.

The center also provides Writing Proficiency Examination (WPE) services for students, including orientation meetings, WPE preparation workshops, and tutoring. WPE consultants are available to meet with students who have previously taken the WPE, but have not passed. Consultants review the students' exam essay and offer strategies and recommendations. Students with a WPE-related registration hold should call the Writing Center for information about a WPE contract.

Computers are available to students who use Writing Center services. However, all students must have a campus NIS account for access to any computer station. Tutors also conduct word-processing and computer-related workshops. Generally every quarter, the center offers workshops that introduce the World Wide Web, Word for Windows, WordPerfect for Windows, and techniques for online research.

Students whose first language is not English may take advantage of the Conversation Lab, a bi-weekly session staffed by a Writing Center tutor in which students can practice English conversation skills in an informal setting.

The University Writing Center is open to all Cal State L.A. students. Call (323) 343-5350 for more information or to schedule an appointment.

University Tutorial Center

The University Tutorial Center, located in the Library, Palmer Wing 1039, offers individual and group tutoring for many general education and other undergraduate courses. Trained peer tutors guide and assist students to develop content area knowledge and skills.

The University Tutorial Center also offers study skills workshops that cover such topics as time management, note-taking, textbook reading, and test-taking to guide and assist students to become confident, effective, independent learners. For more information, call (323) 343-3971.

Student Health Services

Medical Services

The Student Health Center offers a full array of medical services that include general medicine, family planning, physical examinations, pharmacy, x-ray, laboratory, health education, preventive dental care, and optometry. Many services are offered without charge. The center also provides immunizations such as those required for admission to Cal State L.A. Exceptional care is taken to protect the confidentiality of student medical records. The center is open Monday–Friday. For more information or to make an appointment, call (323) 343-3300.

Students who have a severe illness that requires hospitalization are referred to private or community facilities. Because on-campus services may not meet students' year-round health needs, enrollment in a program of supplemental health insurance is recommended. Information about a campus-sponsored program is available at the Student Health Center.

Personal Counseling

The Counseling Center provides individual and group counseling for concerns such as depression, personal adjustment, relationship issues, coping with stress, and clarifying goals. Counseling can help students make the most of their education by fostering personal growth and mental health. The center is a place where individuals can explore their feelings, values, and concerns with a trained professional in an atmosphere of understanding and confidentiality. The center is located on the second floor of the Student Health Center building. Students can make appointments in person or by calling (323) 343-3302.

Other Services and Programs

Child Development Center

The Anna Bing Arnold Child Care Center provides part-time and full-time day care at a nominal cost for children ages two to five years whose parents are Cal State L.A. students, staff, or faculty members. The center is located at 2300 Levanda St. in Los Angeles, adjacent to the campus. The attractive, residential style building with a large, fully fenced yard was designed to serve as a learning environment for Cal State L.A. students as well as for children. For applications and information, call (323) 343-2470.

Continuing Education

Continuing Education administers Extension programs, Special Sessions, Professional Development, the American Culture and Language Program (ACLP), Instructional Television Fixed Services (ITFS), and External Degree programs. Refer to the chapter in this catalog titled *The University* for additional information.

International Student Services

The University's excellent academic programs attract international (visa) students from around the world. International Student Services (ISS) provides assistance in admission, orientation, and counseling to all international students and scholars, permanent resident alien students, and refugees. Students interested in organizing national or cultural clubs may obtain support and guidance from ISS. The professional staff provides counseling for educational, social, or personal problems. ISS provides assistance and guidance to students who wish to obtain practical training and to maintain compliance with U.S. and home country immigration requirements. The ISS staff treats student concerns with confidentiality. Everyone is welcome to visit the office in Administration 127. For more information, call (323) 343-3170 or e-mail: mdfels@cslanet.calstatela.edu.

International Student and Scholar Advising Services

Provides assistance to visa students and scholars in such areas as academic and cultural adjustment and social and recreational activities.

Immigration Counseling Services

Provides assistance to visa students, foreign scholars, and foreign faculty with visa issuance (F, H, and J visas, etc.), maintenance of student status, and matters that involve the U.S. Immigration Service.

Opportunities to Study at Other Universities in the U.S. and Abroad

The *National Student Exchange (NSE)* program offers students an opportunity to study at more than 140 state universities throughout the U.S. The period of study may range from one quarter to a complete academic year. The California State University International Programs (IP) provides the opportunity to study for an academic year at top universities in several different countries. The Study Abroad office (Admin. 127) offers information about short-term study opportunities in other countries, Fulbright and Rotary fellowships, internships, volunteer programs, and short-term work opportunities abroad. Academic credit is available for study in the NSE and for study abroad. Financial aid may be applied to the NSE and study abroad. Many programs cost little more than studying at Cal State L.A. This office also sells the valued International Student Identification Card (ISIC), which enables students to take advantage of discounts for local and foreign hotel accommodations, travel, and entertainment. For more information about these programs, visit Administration 127, call (323) 343-3170, e-mail jmyrick@cslanet.calstatela.edu, or refer to the **International Programs** section in the chapter titled *The University*.

Practical Training Services

Students who are eligible for practical training may seek help from Practical Training Services to identify practical training employers and to help monitor their work experience. Employers may contact Practical Training Services for assistance in locating eligible students and in establishing close ties between visa students and local business communities. For more information, contact International Student Services, Administration 127, (323) 343-3170, fax (323) 343-6478.

Special Programs and Services

Services include the administration of the Southern California/Northern Argentina chapter of the *Partners of the Americas* and the provision of consulting services to education, government, business, and industry about international education and intercultural communication matters.

Office for Students with Disabilities

The Office for Students with Disabilities (OSD) provides services designed to make the educational and social experiences of students with disabilities as similar as possible to those of students without disabilities. Students with verified permanent disabilities are provided appropriate disability-related services from the following list:

- Assistance with applications for admission
- Orientation to services available through OSD
- Priority registration for classes
- Program change assistance
- Disabled parking
- Referrals to on- and off-campus resources
- Diagnostic assessment of learning disabilities
- Referral to on-campus computer labs that have adaptive equipment

- Disability management counseling
- Special test-taking accommodations
- Note takers
- Readers
- Interpreters (sign language and oral)
- Real-time captioning
- Test proctors
- Lab assistants

In addition to these services, OSD lends the following equipment to students with disabilities:

- Special tape recorders for students who are blind or have learning disabilities (limited number)
- Braille
- Speech synthesizers for campus computers
- Optacon
- Telecommunication Device for the Deaf (TDD)
- FM amplification systems for the hearing impaired

Adapted Technology Program

The Adaptive Technology Program provides students alternative access to electronic information and computers and technology aids for educational activities. The program provides campuswide support for the libraries, academic technology services, and all academic departments and divisions. The program provides training and support on voice-input systems, screen readers, enlargement software, Braille translation and printing, cctv's, book-reading equipment, and other educational aids.

The Office for Students with Disabilities is located in Student Affairs 115, (323) 343-3140 (TDD 343-3139), fax (323) 343-6429.

Student Housing — Living on Campus

Cal State L.A.'s resident apartments offer an excellent "home away from home" for students who choose to live on campus. All of the 132 two-bedroom and 60 four-bedroom apartments are furnished, including carpeting and blinds, air conditioning, stoves, microwave ovens, and refrigerators. Students may relax in two community centers. The complex also offers a recreation/games room, a large TV lounge, a computer lab, a weight room, and laundry facilities. Basketball and volleyball courts are equipped with lights for evening use. Parking is available in a specially designated, well-lit parking area. Live-in staff members help residents build and maintain a sense of community. Resident assistants provide both educational and social programs to create a well-rounded experience for students who live in on-campus housing.

Students may consider several options when they decide to live on campus.

Theme Areas

The Neighborhood. The Neighborhood is home to graduate and nontraditional students. This area of the community has a 24-hour quiet policy.

First Year House. All freshmen begin their residential experience in the First Year House. This is the place to become acclimated to the University community through a focus on academic success and leadership development.

ACLP/International House. The ACLP/International House is home to students who are enrolled in the American Culture and Language Program (ACLP) offered through the Office of Continuing Education. This house brings students of different cultures and nationalities together in the context of daily living. Programs offered in this area are focused on cultural exchange and English language practice.

Wellness/Substance Free House. The Wellness House brings together students of all ages who are interested in maintaining their physical well being and a healthy lifestyle. Programs offered in this area promote wellness and healthy living.

Community Living

The Village. The Village is home to students, in double occupancy, who enjoy community living, but have chosen not to be a part of a theme area.

Quiet House. The Quiet House is a community of undergraduate students. The area emphasizes quiet living and an opportunity for concentrated study.

For more information, call Housing Services at (323) 343-4800 or visit the Web site: www.calstatela.edu/univ/housing/.

University-Student Union

The University-Student Union (U-SU), (323) 343-2450, is the focal point of extracurricular interaction for the University community. Students, staff, faculty, alumni, and invited guests participate in social, cultural, recreational, and educational activities. Facilities and services include the game room, Café LA (a specialty coffee-pastry bar), an information/ticket service, the Student-Alumni Lounge, and a variety of S.U.P.E.R. (Student Union Programming, Entertainment, and Recreation Committee)-sponsored programs described below. The Union also offers a full range of meeting rooms, information services, lounge and study areas, and employment opportunities, as well as student activities and special events.

Board of Directors

The University-Student Union Board of Directors, which comprises 13 voting members including seven students, establishes policy and governance and develops administrative policies that affect the management of the building. The board conducts much of its work through a committee structure that includes fiscal, personnel, space allocation, building usage, and executive committees. Meetings are open to the public, and attendance is encouraged.

Central Reservations

This office coordinates all nonacademic scheduling of campus facilities for on- and off-campus groups. Meeting rooms, conference facilities, audio-visual media equipment, and parking for conferences, retreats, receptions, and social events can be reserved through this office.

Student Resource Centers

Four student resource centers on campus cater to the needs of the diverse student population. Each center serves to provide a bridge among the educational, social, and community aspects of collegiate life. Students under the supervision of the Multicultural Coordinator operate the Asian Pacific American Student Resource Center, the Chicano/Latino Student Resource Center, the Pan Afrikan Student Resource Center, and the Women's Resource Center.

All four centers are located on the second floor of the University-Student Union.

Other Services

Other services located within the University-Student Union include the Cal State L.A. Alumni Association, UnionLink Stations Computer Lab, Bookstore Annex (a campus convenience store), Associated Students, Inc. (ASI) offices, the Cal State L.A. Federal Credit Union, Council Travel, The Pulse Copy and Technology Center, King Taco, C-Cellular, Amanu Gallery, and the University Square Bookstore.

Student Union Programming, Entertainment, and Recreation Committee

S.U.P.E.R. consists of a group of student coordinators and volunteers, under the supervision of the Programs Director and a staff coordinator, who devote their time every quarter to plan and promote activities for Cal State L.A. and the surrounding community.

Most events sponsored by S.U.P.E.R. are free, including Haunted Union, Mardi Gras, Spring Fling, Java & Jam, Tuesday Concerts, and the Film Series. Value-packed ski trips to Big Bear Mountain and weekend rafting trips have also become popular annual events.

Since its creation in 1988, S.U.P.E.R. has dedicated time to bringing quality programs to Cal State L.A. students, faculty, staff, alumni, and guests. S.U.P.E.R. also cosponsors important campuswide events such as Chinese Lunar New Year, Cinco de Mayo, Black History Month, Women's History Month, and Asian Pacific Heritage Week. Through S.U.P.E.R.'s efforts, famous acts and celebrities have made appearances on campus. They have entertained students and the community inside many of the Union's meeting rooms as well as outside in the Free Speech Area.

S.U.P.E.R. is continually looking for bright, energetic students who are interested in helping to bring exciting programs to campus. For information about volunteer opportunities, visit the S.U.P.E.R. office on the third floor of the Union or call (323) 343-5110.

University Bookstore

The University Bookstore, operated as a licensee of Barnes and Noble Bookstores, Inc. of New York, is located on the street level of the University-Student Union. Textbooks, general books, software, study aids, school supplies, gift items, and the Market Place (a convenience store with various food and sundry items) are available.

Student Clubs and Organizations

Students are welcome to join in cocurricular activities sponsored by more than 100 student clubs and organizations. These groups function on campus under provisions established by the CSU Board of Trustees. The University-Student Union administers these provisions to provide official University recognition of student organizations. These organizations represent every phase of student life—academic, social, cultural, religious, and political. Clubs related to academic areas are organized in such areas as education, engineering, foreign languages, social and political science, business, the natural sciences, computer science, mathematics, psychology, and fine arts. Other clubs promote service to the campus and community and reflect the campus' culturally diverse student body.

Sororities and Fraternities

A traditional part of campus life for many Cal State L.A. students is membership in Greek social organizations, which offer the chance to meet new friends and participate in an extensive program of activities. In addition to social functions, these organizations are involved in various campus and community projects and provide housing for a limited number of their members.

Sororities

Alpha Sigma Tau
Alpha Theta Pi
Delta Phi Sigma
Delta Sigma Theta
Delta Zeta
Kappa Zeta Phi
Zeta Phi Beta

Fraternities

Alpha Phi Omega
Beta Omega Phi
Phi Sigma Kappa
Sigma Alpha Epsilon
Sigma Lambda Beta
Sigma Nu

Veterans' Services

Cal State L.A. is approved for the training of veterans of the military services and their dependents under educational assistance programs established by the state and federal governments. Authorization for training under all federal bills must be obtained from the Veterans Administration through its regional office at 11000 Wilshire Boulevard, Los Angeles, CA 90024. Veterans with no prior training under the G.I. bills are urged to request their letter of eligibility at least two months before enrolling. Those transferring from another school should submit their transfer request at least one month before enrolling.

The Veterans' Services Office, located in Administration 146, (323) 343-3948, provides enrollment certification for financial benefits and serves as a liaison between the University and the VA regional office for benefit payments and advisement about current benefits. Information about changes in legislative regulations and procedures also is available.

Children of Disabled Veterans

Students who qualify as children of certain disabled veterans of U.S. military services may be exempted from paying any student services portion of the registration fees, according to the *California Education Code*. Information about eligibility requirements and applications for waiver of these fees are available in the Office of Veterans' Services.

Student Activities – Special Interest Groups

Art Exhibitions

The Art Department's Fine Arts Gallery presents exhibitions of artwork by established professional artists as well as faculty and students. In addition, the student-run exhibition space, COMA Gallery, presents rotating exhibitions of Cal State L.A. student artwork. All exhibitions are free and open to the public.

Communication Activities

Forensics teams participate in debate and individual events in prominent intercollegiate tournaments. Students in Oral Interpretation and Performance Studies offer frequent public presentations. Students produce the *University Times*. Students may earn credit for participation in these programs by enrolling in appropriate activity courses in the Department of Communication Studies.

Dance

The University Dance Ensemble offers students experiences in performing, choreographing, costume designing, lighting, and composing sound for dance. Performances vary in number each year and range from mini-concerts to full productions. Membership is open to anyone who has a strong interest in dance theatre and is able to fulfill the purposes and functions of the organization. Students who participate must enroll in dance courses 480, 483, and 484 in the Department of Theatre Arts and Dance.

Intramurals

The Department of Kinesiology and Physical Education offers a variable selection of intramural sports and activities for all men and women at Cal State L.A. Opportunities range from varied recreational interests to competitive intramural leagues. Students may enroll for credit in an intramurals course, PE 110. Literary Activities

The Department of English sponsors the Creative Writing Club, the David L. Kubal Memorial Lecture, and the Jean Burden Poetry Series. Open to students in all majors, the Creative Writing Club promotes student writing at Cal State L.A. by holding weekly workshops, hosting quarterly public readings, and publishing an occasional journal of poetry, fiction, and creative nonfiction. The David L. Kubal Memorial Lecture Series is designed to bring outstanding scholars to lecture on campus. Recent Kubal Lecture Series speakers have included Frederick Crews, Marjorie Perloff, Helen Vendler, Sacvan Bercovitch, and J. Hillis Miller. The annual Jean Burden Poetry Series event has hosted such poets as Paul Zimmer, Howard Nemerov, Tess Gallagher, Maxine Kumin, Lucille Clifton, Mark Strand, Diana O’Hehir, Bruce Bond, Killarney Clary, Carolyn Kizer, Richard Wilbur, and Mary Oliver. The English Department is also the home of the American Literature Association (ALA), a national coalition of author societies devoted to the study of American writers. The ALA sponsors national and international conferences.

Musical Events and Organizations

The Associated Students cooperates with the Department of Music in offering an extensive program of musical events. Students enroll for academic credit in music activity courses as members of various performance organizations. Each organization has a regular performance schedule and performs several times each year both on and off campus. Some concerts are held during the noon hour; others are scheduled at night or on weekends. Membership is open to all students who wish to participate. The Chamber Singers, Concert Choir, Jazz Ensemble I, Vocal Jazz Ensemble, and Woodwind Ensemble require an audition. Music organizations include:

Musical Organization

Musical Organization	Course No.
Brass Ensemble	MUS 422
Chamber Music	MUS 485
Chamber Singers	MUS 425
Concert Choir	MUS 326
Jazz Ensemble	MUS 424
Jazz Ensemble (small)	MUS 429
Latin Jazz Ensemble	MUS 427
New Music Ensemble	MUS 438
Opera Workshop	MUS 426
Percussion Ensemble	MUS 423
String Ensemble	MUS 420
Symphonic Band (includes a Wind Ensemble)	MUS 320
Symphony Orchestra	MUS 321
Vocal Jazz Ensemble	MUS 328
University Chorus	MUS 327
Woodwind Ensemble	MUS 421

Student Publications

A wide variety of student publications represent the myriad academic and professional interests of Cal State L.A.’s student body. A partial list of these publications appears below. For information about being involved in—or receiving—a particular publication, interested students should contact the appropriate department/division.

Publication	Department or School Office
California Anthropologist	Anthropology
Cal State L.A. Engineer	Engineering and Technology
Statement	English
The Looking Glass	Psi Chi/Psychology
Revista Literaria Iberoamericana	Modern Languages and Literatures
University Times	Communication Studies
Perspectives: A Journal of History	History

Theatrical Productions

The Department of Theatre Arts and Dance offers comprehensive programs in play and dance production and children’s theatre. The department presents six or more productions during the year; they include faculty- and student-directed workshops and major productions. All students are eligible to audition for plays or apply for backstage assignments. They may earn production credit by enrolling in TA 100, 300, 310, 459, or 489 or DANC 480.

Teatro Universitario en Español

The Departments of Modern Languages and Literatures and Theatre Arts and Dance offer students the opportunity to participate in the staging of plays in Spanish and English. Activities include acting, costume preparation, lighting, sound, set construction, publicity, and performance of a variety of backstage tasks. Plays are normally staged during the winter quarter. Interested students may enroll in SPAN/TA 459, Hispanic Play Production.

Procedures and Regulations

General Information

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Free Summer Quarter Plus (FSQ+) Program

Withdrawal and Leaves

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Course Numbering System

Course Abbreviations

Grading System

Scholastic Status of Undergraduate Students

Scholastic Status of Graduate and Postbaccalaureate Students

Student Conduct: Rights and Responsibilities

Procedures and Regulations

General Information

Information about University procedures and regulations contained in this section is applicable to all undergraduate students. Some general information also applies to postbaccalaureate and graduate students. Additional procedures and regulations applicable only to postbaccalaureate and graduate students are included in the *Graduate and Postbaccalaureate Study* section.

Undergraduate Class Levels

Undergraduate students are classified according to the number of quarter units of baccalaureate-level course work they have completed, calculated as follows:

Class Level	Quarter Units Completed
<i>Lower Division</i>	
Freshman.....	0–44
Sophomore.....	45–89
<i>Upper Division</i>	
Junior.....	90–134
Senior.....	135+

Quarter Units/Quarter System

Cal State L.A. credits are expressed in quarter units; one quarter unit normally represents no less than one hour of class work and two or more hours of outside study per week for one quarter. One and one-half (1½) quarter units are equal to one (1) semester unit. Conversely, one quarter unit is equal to 2/3 semester unit of credit.

Study Load

Undergraduate students must carry a study load of 12 units for full-time enrollment certification by the University. The recommended full-time study load for undergraduates is 16 units. Students on scholastic probation must limit their study load to 12 units unless an academic adviser in their major department/division has approved an exception.

Student Identification Number (SID)

Cal State L.A. uses all students' Social Security numbers as their official Student Identification Number (SID) pursuant to the authority contained in *Title 5, California Code of Regulations*, Section 41201. This number is used as a means of identifying records pertaining to students as well as for identifying students for purposes of financial aid eligibility and other debts payable to the institution. On most student forms, the name is abbreviated as SID.

Registration

Continuing students at California State University, Los Angeles receive a registration notification form in the mail before the scheduled registration dates for each quarter. Complete information about registration procedures is provided in the *Schedule of Classes*, issued each quarter before the registration period and available for purchase at the University Square Bookstore. Student Telephone-Assisted Registration (STAR) is available to all eligible continuing students.

Students maintain their continuing student status for registration purposes only by attending at least two of the four quarters immediately preceding the quarter in which they plan to enroll. Students who were admitted and enrolled in one of the last three quarters preceding the quarter in which they

plan to enroll will also maintain their continuing student status for registration purposes. Absence for more than two of any four consecutive quarters without an approved leave of absence will cancel continuing registration eligibility. See *Leaves of Absence* later in this chapter.

Attendance in University extension courses does not constitute continuous attendance.

Students who attended another college or university during an absence from Cal State L.A., except for a summer session or extension program or approved visitor enrollment at another CSU campus, are required to file an application for admission as a returning student and have official transcripts of work taken sent to the Admissions Office. The \$55 nonrefundable application fee is charged. Such students will, if eligible, receive forms to register as returning students.

Students who are graduated with a bachelor's degree from Cal State L.A. and wish to continue in graduate standing are required to file a new application for graduate admission and will, if eligible, receive forms to register as new students.

Academic Advisement

Academic advisement is required for all new students before or during their first quarter in attendance. Before registering for their first quarter at Cal State L.A., students must consult an adviser in their major department/division or school-based advisement center to plan a program of study. After the first advisement session, students must consult an academic adviser at least annually or more often as necessary to enhance academic success. Undergraduate students who, upon admission to the University, are unable to select a specific major shall consult an adviser in the University Academic Advisement Center.

Because the approved degree program becomes the basis for determining eligibility for the degree, any change in the student's planned program must have an academic adviser's approval. Annual, or more often as needed, consultation with an academic adviser *in* the major department/division or school-based advisement center is therefore required. Newly admitted students should bring a copy of all high school and/or college transcripts when seeking advisement. They should consult the *Schedule of Classes* for a list of academic advisers.

Forms used for change or declaration of major are available in Administration 146. Students may change their major by consulting an adviser in the appropriate academic department/division, school-based advisement center, and by application through the University Academic Advisement Center. They should be aware, however, that a change in major might defer graduation if there are significant shifts in course requirements.

Undeclared Majors

Upon admission, undergraduate students are encouraged to declare a major. Those who have not selected a specific major shall be designated undeclared majors. Before registering for their first quarter at Cal State L.A., undeclared majors shall consult an adviser in the University Academic Advisement Center, Library, Palmer Wing 1040A, to plan a preliminary program of study.

All students shall declare a major by the time they complete 45 quarter units in residence or four quarters in residence, whichever comes first.

Final Examinations

Final examinations or final class meetings are required in all courses at the time and place shown in the final examination schedule in the *Schedule of Classes*. Any exception in time or place must have written approval of the instructor, department/division chair, and school dean. Students who find it impossible to take a final examination at the scheduled time may, with the written approval of the instructor, department/division chair, and school dean, have a special final examination administered.

Repeating Courses

Unless otherwise indicated in the description of a particular course in this catalog, students may not repeat for credit any course they have already completed with a grade of C (2.0 grade points) or higher nor may they, in any case, receive units earned more than once for each passing attempt.

Removal of Work from Degree Consideration

Under certain circumstances, up to two semesters or three quarters of previous undergraduate course work taken at any college may be disregarded from all considerations associated with requirements for the baccalaureate. Detailed eligibility and procedural information is provided in the *Schedule of Classes*. The basic criteria are listed below:

- Any previous removal of work from degree consideration must be included in applying the limits on work that may be disregarded;
- Since completion of the work to be disregarded, students must have maintained the following grade point averages at Cal State L.A. at the time of petition: 3.0 for students with 22–44 quarter units completed; 2.5 with 45–66 units completed; and 2.0 with 67 or more units completed; *and*
- There must be evidence that the student would find it necessary to complete additional units and enroll for one or more additional quarters to qualify for the baccalaureate if the request was not approved.

Students are advised that they may file a petition to disregard undergraduate course work as described above if their grade point average is lower than C (2.0) either in general education, the major, or overall college units attempted (a condition is preventing them from qualifying for the degree) and they meet all of the above criteria and conditions.

Repeating Courses for Academic Renewal

Effective Fall 1996, students who are pursuing a baccalaureate may repeat a course one time for purposes of academic renewal if the grade of record is below a C (2.0 grade points). This procedure is limited to a maximum of 20 quarter units. *All repetitions must be done at Cal State L.A.*

Students who are pursuing a second or subsequent bachelor's degree may repeat only courses leading to the present degree objective (not courses used for prior bachelor's degrees) for purposes of academic renewal. In computing grade point averages for graduation with a baccalaureate from Cal State L.A., units attempted, units earned (if any), and grade points (if any) for previous attempts of the same or equivalent courses shall be excluded when specified conditions are met.

Students are advised that repeating a course under this policy does not result in removal of the original record and grade from the transcript. However, the earlier grade is disregarded in calculating the grade point average. Individual schools, departments, and divisions may have additional restrictions about acceptance of repetitions. Students should therefore, consult department/division advisers before attempting repetitions and should consult the *Schedule of Classes* for details about filing instructions. The repeated course form, available at Administration 146, must be on file when a student enrolls in the course to be repeated and no later than the add deadline.

Honorable Dismissal

Honorable dismissal is granted to all students who are not under financial obligation to the University and who are not under disciplinary probation, suspension, or expulsion. Academic disqualification does not constitute dishonorable dismissal.

Petitions for Waiver of Regulations

Rules and regulations in this catalog have been adopted by the faculty and administration to maintain appropriate academic standards and facilitate the administration of the university's programs. Students who believe that extenuating circumstances might justify the waiver of a particular regulation or requirement may file a petition at their major department/division office, according to established procedures, for consideration by a faculty committee. However, provisions of *Title 5, California Code of Regulations*, or other state or federal laws and regulations, are not subject to waiver by petition. Detailed information about procedures and regulations governing petitions are found in the *Schedule of Classes*.

Schedule of Fees: 1999-2000

CAUTION: All student fees are subject to change without advance notice.

Legal residents of California are not charged tuition. The following reflects applicable fees and nonresident tuition for the quarter system.

No fees of any kind shall be required of or collected from individuals who qualify for such exemption under the provisions of the Alan Pattee Scholarship Act.

Application Fee

Application Fee (nonrefundable), payable by check or money order at time application is made: \$55

Registration Fees

State University Fees				
Units	Quarter		◆ Academic Year	
	Under-graduate	Graduate	Under-graduate	Graduate
0 to 6.0	\$276	\$292	\$828	\$876
6.1 or more	476	502	1428	1,506

◆ Does not include summer quarter

Miscellaneous Fees	Quarter	Year
Student Health Center	\$40.00	\$120.00
Health Facilities	2.00	6.00
Instructionally Related Activities	*6.00	19.00
***Associated Students	**17.25	53.75
University-Student Union	31.50	94.50

* \$7.00 in Fall Quarter
 ** \$19.25 in Fall Quarter
 *** Refer to Appendix G

Nonresident Tuition—U.S. and Foreign

(in addition to other fees charged all students for all campuses)

Charge per quarter unit.....\$164

The total fee paid per quarter will be determined by the number of units taken, including those in excess of 15.

Other Fees

(refer to Schedule of Classes for more detailed list)

Fee	Amount
Comprehensive exam. (course #596 in major)	\$10.00
Credential application	95.00
Credential (transcript) evaluation/processing.....	25.00
Degree check application (graduation)	20.00
Diploma	10.00
Dishonored check (first time)	25.00
Dishonored check (subsequent to first time).....	35.00
Dishonored credit card.....	20.00
Entry Level Mathematics (ELM) Exam	16.00
Modern Language Reading Exam (ML 901)	10.00
Modern Language Competency Exam (ML 902)	25.00
Late Registration (nonrefundable)	25.00
Automobile Parking Decals per quarter	42.00
Motorcycle, Moped parking decals per quarter	10.50
Parking Meters (per hour)	30 – .50

Fee	Amount
Photo-ID (nonrefundable)	5.00
Thesis binding (per copy) (not a state fee)	15.00
Transcript of academic record (single copy)	4.00
Each additional transcript (2–10) requested at the same time	2.00
Each additional transcript (in excess of 10) requested at the same time	1.00
Writing Proficiency Examination (WPE-UNIV 400)	15.00

Materials/Breakage Fee

Some art, chemistry, and technology courses have additional fees for special materials and/or breakage. These courses are identified in this catalog and in *Schedule of Classes* notes. Items lost or broken will be charged at cost. Failure to satisfy charges billed will result in the withholding of transcripts and registration privileges.

Library “Excessive Use” Fees

“Excessive Use” fees are computed from the time the material was due until the time the material is returned or declared lost.

Excessive Use Fee Per Transaction

Hourly or overnight loans	
Per hour	\$0.25
Maximum per transaction	10.00
Regular loans	
Per day25
Maximum per transaction	10.00
Replacement fee for lost books	
Excessive use fee, plus replacement cost of item, plus a service fee of	10.00
Recalled items	
Per day	0.75
<i>(Due on or before exact date specified in recall notice; no maximum per transaction)</i>	

Once billed, fees are not negotiable except under extenuating circumstances. Failure to satisfy charges billed will result in the **withholding of transcripts and registration privileges.**

Musical Instrument and Audio/Visual Equipment Fee

A fee of up to \$25 will be charged for the repair, maintenance, and insurance of musical instruments and audio/visual equipment owned by the state and used by individual students in course work.

Free Summer Quarter Plus (FSQ+) Program: Enrollment Confirmation Deposit

All students who enroll in the FSQ+ Program are required to make a \$250 Enrollment Confirmation Deposit. Those who are eligible to receive financial aid may be eligible for a deferment. Students who wish to defer their \$250 deposit must complete and submit a *Request to Defer FSQ+ Enrollment Confirmation Deposit* form by April 1 to the FSQ+ Office.

Other Fee-related Items

Credit Cards

VISA, MasterCard and Discover bank credit cards may be used for payment of student fees.

Waiver of Fees

Nonresident fees may be waived for persons who hold a valid California credential and are employed by a public school district in this state in a full-time position requiring certification. Eligible persons must meet at least one of the following conditions:

- hold a provisional credential and enroll in courses necessary to obtain another type of credential authorizing service in the public schools;
- hold a partial credential and enroll in courses necessary to fulfill postponed credential requirements; or
- enroll in courses necessary to fulfill requirements for a fifth year of study as prescribed at Cal State L.A.

Refund of Fees

For details about fees that may be refunded, the circumstances under which fees may be refunded, and the procedure to follow in seeking refunds, see Sections 42201y (parking fees), 41913 (nonresident tuition), 42019 (housing charges), and 41802 (all other fees) of *Title 5, California Code of Regulations*. These regulations are published in the *Schedule of Classes*. In all cases, one must act quickly in applying for a refund. Information about the refund of fees may be obtained from Student Financial Services, Administration 128 (323) 343-3630.

Disenrollment

Students who have a fee obligation to the University will be billed. Payment must be made within 10 days of the invoice

date. Failure to pay by the established deadline is cause for disenrollment because of incomplete payment of registration fees. Disenrollment means the permanent loss of credit for classes taken for the quarter involved. There is no refund of any fees already paid for the quarter involved.

Students who fail to complete all required subcollegiate ("remedial") courses during their first year at Cal State L.A. will be disenrolled from the University in compliance with the CSU Chancellor's Office Executive Order 665.

State University Installment Plan

The CSU is now authorized to collect State University Fee and Nonresident Tuition in installment payments. The administrative fee for the State University Installment Plan is \$22 per academic quarter. The administrative fee for nonresident tuition is 15 percent of each installment payment. For additional information about this plan, please refer to the *Schedule of Classes*.

Debts Owed to the Institution

If a student or former student fails to pay a debt owed to the institution, Cal State L.A. may "withhold permission to register, to use facilities for which a fee is authorized to be charged, or to receive services, or any combination of the above from any person who owes a debt" until the debt is paid (see *Title 5, California Code of Regulations*, Sections 42380 and 42381). For example, the institution may withhold permission to receive official transcripts of grades from any person who owes a debt. Students who believe they do not owe all or part of an unpaid obligation should contact the Cashiers' Office. The Cashiers' Office, or another office on campus to which students may be referred, will review the pertinent information, including information students may wish to present, and will advise students of its conclusions with respect to the debt.

Categories of Enrollment

Credit by Examination

Undergraduate students in good standing and officially enrolled in one or more residence courses may challenge courses by taking examinations developed at the campus. Examinations are interpreted broadly to include whatever activity, test, or demonstration an instructor deems appropriate to evaluate comprehension, skills, or knowledge required by the course objectives. Credit shall be granted to students who pass examinations that have been approved for credit systemwide. These include the Advanced Placement Examinations, the CSU English Equivalency Examination, and some CLEP examinations.

Approval of the chair of the department/division that offers the course and an instructor for the course is required. Forms for approval are available in Enrollment Services, Administration 146, and must be filed with the Records Office by the fifth week of the quarter in which the examination is taken. Additional fees must be paid if the added units alter the total fees due for the quarter.

Credit by examination is restricted to undergraduate and graduate courses listed in this catalog. It is without unit limit, but does not count as residence credit. Such credit is not treated as part of the student's workload during a regular quarter and therefore does not require approval for excess study load. Grades received by examination are recorded as

final grades on the permanent academic record and are designated as earned through credit by examination.

Credit earned by examination at another accredited institution is accepted upon transfer, if the units have been accepted by the previous institution as equivalent to specific courses and are not in violation of any other regulations.

Visitors within California State University (CSU)

Students who are enrolled at any CSU campus may transfer temporarily to another CSU campus in visitor status if they have completed 12 units with a minimum C (2.0) grade point average at the home campus, are in good standing, and are eligible to register in continuing status. Visitors are approved for one term only, subject to space availability and registration priority policies at the host campus. Enrollment as a visitor may be repeated after re-enrollment at the home campus. This opportunity may be particularly valuable to students whose educational progress can be enhanced or expedited by attending a summer quarter at Cal State L.A. Concurrent enrollment (see below) is not permitted during visitor status. Visitor applications may be obtained at Student Affairs 101.

Concurrent Enrollment within CSU

Students who are enrolled at any CSU campus may enroll concurrently at another CSU campus if they have completed 12 units at the home campus with a C (2.0) grade point average and are in good standing. Concurrent enrollment is approved for a specific term, subject to space availability and registration priority policies at the host campus. Because of overlap in academic terms of campuses on semester and quarter calendars, concurrent enrollment is subject to combinations and conditions described in the concurrent enrollment application forms available at Student Affairs 101.

Open University

Enrollment through the Open University program, administered by Continuing Education, permits nonmatriculated students to enroll in certain regular classes on a space available basis; however, matriculated students in the University who are in continuing status (i.e., students who have registered for at least two of the previous four quarters) may *not* enroll in degree credit-granting classes offered under state support and made available to students by Continuing Education through Open University.

Audit Registration

Regularly enrolled students may register for classes in audit status through add/drop (program change) procedures only as indicated in the *Schedule of Classes* for audit registration. Such registrations are subject to the same fee regulations as registration for credit, and fees must be paid at the time of registration. Registration for a course in audit status is subject to approval of the instructor and is permitted only after students who desire to enroll on a credit basis have had an opportunity to do so.

Regular class attendance is expected, but audit registrants are not required to complete assignments or take examinations. An audit registration may not be changed to a credit registration after the last day to add classes. No entry about audit registration is made on student grade reports or transcripts.

Dual Registration

Undergraduate students who wish to take classes at another accredited college or university, not within The California State University, while enrolled at Cal State L.A. must file a *Notification of Dual Registration* at Student Affairs 101 by the end of the third week of the quarter involved. This notification must be endorsed by the student's Cal State L.A. major department/division academic adviser and the department/division chair for the course(s) involved. Students are advised, also, to consult official evaluators and advisers at the non-CSU campuses where the work is taken to ensure the transferability of course work. Courses so taken are subject to all regulations and limitations governing transfer credit. To receive bachelor's degree credit for such course work, students must have official transcripts forwarded to the Admissions Office upon completion of the course work.

Change of Program

Students are strongly advised to select classes carefully and to avoid the undesirable necessity of changing their program of study. Adding and dropping classes, including changing sections in the same course, may be done only in accordance with policies, procedures, and time limits stated in the *Schedule of Classes*. Students who fail to follow these procedures incur the risk of a grade of F or U.

Free Summer Quarter Plus (FSQ+) Program

Students accepted into the **FSQ+ Program** will be required to meet the following obligations:

- Attend the Summer and Fall quarters**, and complete a **minimum** of 12 units each of these two quarters.
- Complete a minimum of 48 units** during the four-quarter period (Summer – Spring). For example, students may choose to take 16 units in three of the four quarters; or, a student may take 16 units during each of the four quarters and graduate in as little as three years.
- See an Academic Adviser** before enrolling in the first summer quarter and each quarter thereafter. At the first meeting with the adviser, the student will declare a major and, working with the adviser, will develop an *academic plan* outlining all required course work and the projected graduation date. Students will be required to sign the *academic plan* with their academic adviser and fulfill all requirements therein. Flexibility will be built into the *academic plan*, and changes can be discussed with the adviser. Each quarter, the adviser: (1) will review the student's records to determine whether courses are being taken in a timely manner and successfully completed; (2) will evaluate the student's progress toward meeting the established goals of the overall *academic plan*; (3) will make any needed changes in that plan; and (4) must certify each quarter that the **FSQ+ Program** standards are being met for the student to be eligible for priority registration for the next quarter. It is the

FSQ+ student's responsibility to see his/her adviser in a timely manner, secure the adviser's signature on the appropriate form, and submit that form to the FSQ+ Office.

- Freshman participants who enter** the University for the first time in the Summer will be required to enroll in Learning Communities during the Summer and Fall Quarters. Learning Communities are designed to enrich and further students' learning and smooth the transition to university life.

5. Grade Point Average (GPA):

Students who are enrolled in the **FSQ+ Program** are required to earn a minimum GPA of 2.25 **each quarter** and maintain a minimum **cumulative** GPA of 2.25 at Cal State L.A. If at any time during enrollment in the **FSQ+ Program** a student has a **cumulative** GPA below 2.25, he/she will be dismissed from the program. However, any **FSQ+** participant whose **quarterly** GPA drops below 2.25 at any time during program enrollment, but whose cumulative GPA remains higher than 2.25, will be placed on **FSQ+ Program** probation. Students who do not earn at least a 2.25 GPA during the next quarter will be dismissed from the program. Any student who is dismissed from the program will be held responsible for all summer fees.

6. Individual Course Grades and the Annual 48 Unit Requirement:

Students who are enrolled in the **FSQ+ Program** must **pass** a total of at least 48 units during the period from Summer Quarter - Spring Quarter inclusive. Students who receive an

F, U, NC, IN or W, in a course will not receive credit toward the 48 required units.

In some courses, a “D” is considered a passing grade; in such cases, any student who receives a “D” in a course will not have to retake that course to remain in the **FSQ+ Program**. However, if the University requires that a course be repeated to meet the graduation requirements of a “C” or better grade, the **FSQ+ Program** will not count that course in which the “D” was earned toward the 48 unit requirement.

FSQ+ Program Probation

Students who are placed on **FSQ+ Program** probation must earn a minimum 2.25 GPA in the next quarter. While on **FSQ+ Program Probation**, students will be required to meet with their adviser at least twice during the probationary quarter to ensure adequate progress toward earning a 2.25 GPA and the requisite 48 units toward graduation.

FSQ+ Program Withdrawal /Dismissal

Students who voluntarily withdraw from the University or the program, or who fail to meet any one of the program requirements will be dismissed from the program and be held financially responsible for all summer fees. Those who fail to pay these fees will have a hold placed on transcripts, and further enrollment to the University will be denied until arrangements for payment have been made. Any student who is dismissed from the **FSQ+ Program** must wait one year to be eligible to re-enroll in this particular program.

Appeal Process

Any student who has been dismissed from the **FSQ+ Program** will be entitled to an appeal. Students will have 14 days from the date the dismissal letter is mailed to file an appeal with the **FSQ+ Program Office for consideration by the FSQ+ Hearing Officer**. This officer will conduct a hearing and evaluate the appeal to determine whether the circumstances warrant an exception to **FSQ+ Program** policy.

Withdrawals and Leaves

Withdrawal from Courses

Students withdraw from courses by filing a completed *program change* form at Administration 146. Within the first seven days of the quarter, students may withdraw from any course with no record of the individual course withdrawal on their permanent academic record. After the “*no-record drop*” deadline, students may withdraw with a *W* grade from any course, but only for serious and compelling reasons. These requests are granted only with the approval of the instructor and the department/division chair on *program change* forms available at Administration 146. Complete information about withdrawals, as well as a sample *program change* form and withdrawal deadlines for each academic quarter, appears in the *Schedule of Classes*.

Withdrawals during the final three weeks of instruction are permitted only when the cause of withdrawal (such as accident or serious illness) is clearly beyond the student’s control and assignment of an *IN* (Incomplete) is not practicable. Ordinarily, such withdrawals also involve total withdrawal from the University, except that *CR* (credit) or *IN* (Incomplete) may be assigned for courses in which the student has completed sufficient work to permit an evaluation. Requests to withdraw under these circumstances are handled as described above, except that such requests must also be endorsed by the dean of the school.

Withdrawal from the University

To withdraw completely from Cal State L.A., students must follow withdrawal procedures outlined in the *Schedule of Classes*. Complete official withdrawal may be accomplished by using the withdrawal form available at Administration 146 or by writing a personal request to the Office of Enrollment Services. After the “*no-record drop*” deadline, students may submit a complete withdrawal by certified mail only for a valid reason (i.e., doctor-certified health problem, death in the family, or emergency military service). All requests should be submitted with appropriate documentation.

Leaves of Absence

Students may petition for a leave of absence for such reasons as professional or academic opportunities, like travel or study

abroad; employment related to educational goals and major fields of study or participation in field study or research projects; medical reasons, including pregnancy, major surgery, and other health-related circumstances; and financial reasons, such as the necessity to work for a specified period to resume study with adequate resources. Petition forms are available at Administration 146.

Evaluation of petitions for leaves of absence takes into account the student’s stated plans and the extent to which a leave would contribute to educational objectives. Students are expected to plan their time of return and their activities during the leave. They must also state why it is critical to remain in continuous residence. In the case of medical or financial leaves, they must state how they plan to remain current with or advance in their academic field.

Undergraduate students may request a leave for no fewer than 3 and no more than 8 quarters. Graduate students are granted a maximum of 4 quarters, subject to renewal. Continuing students’ allowed absence of 2 quarters is included in these maximums.

Petitions must be filed at Administration 146 after action by the department/division chair (also the school graduate dean in the case of graduate students) no later than 3 weeks before the end of the quarter before the proposed leave. Approval entitles students to continuing status for registration purposes if they return no later than the quarter specified in their petition. Continuing students who return from a leave are entitled to priority registration privileges and are not required to file an application for readmission.

Undergraduate students retain current catalog requirements for graduation; classified postbaccalaureate and graduate students retain classified standing. Unclassified postbaccalaureate and conditionally classified graduate students who have an approved program on file in their school graduate studies office are subject to the conditions of those programs. All others are subject to the requirements in effect when they return.

Transcript of Academic Record

A transcript of Cal State L.A. course work is issued upon written request by the student. Transcript request forms are available at Administration 146 and 128 and on the Cal State L.A. Web Page. The cost of a single transcript is \$4. When more than one transcript is ordered at the same time, the first copy costs \$4, the second through tenth copies cost \$2 each, and any copies in excess of ten cost \$1 each. The form

requires the name used by the student while in attendance, the birth date, and the Social Security account number, which is referred to on campus as the Student Identification (SID) number.

Copies normally are mailed one week after receipt of request. However, requests that specify inclusion of grades just earned or verification of a degree just awarded cannot be filled until two to three weeks after the end of the quarter.

Course Numbering System

Course Numbers

Subcollegiate, undergraduate, graduate, and noncredit courses are numbered as shown below.

000–099 Subcollegiate level (no credit allowed toward requirements for academic degrees).

100–299 Lower division courses (freshman and sophomore level).

300–399 Upper division courses (junior and senior level) that do not earn graduate credit.

400–499 Upper division courses (junior and senior level) that may earn graduate credit for graduate students.

500–599 Graduate courses for graduate students only.

600–699 Specialized graduate courses for postgraduate students matriculated in the joint Ph.D. program in Special Education.

700–749 Courses intended primarily for lower division students. Not acceptable toward degree or credential programs at Cal State L.A., but acceptable for professional advancement credit. Unit value credit listed directly after course title on academic record is acceptable for professional advancement credit only when accompanied by CR (Credit) grade.

750–799 Courses intended primarily for upper division students. Not acceptable toward degree or credential programs at Cal State L.A., but acceptable for professional advancement credit. Unit value credit listed directly after course title on academic record is acceptable for professional advancement credit only when accompanied by CR (Credit) grade.

800–899 Highly specialized courses intended primarily for graduate students. Not acceptable toward degree or credential programs at Cal State L.A., but acceptable for professional advancement credit. Unit value credit listed directly after course title on academic record is acceptable for professional advancement credit only when accompanied by CR (Credit) grade.

900 Noncredit courses open to graduate students only. Courses in the 900 series (UNIV 900) are open only to graduate students who have previously enrolled in all allowable research units (597) and are not enrolled in any other credit-bearing courses or thesis or project units (599) but will use University facilities or consult with faculty.

Course Suffixes

Many course numbers have letter suffixes. Although many indicate special uses of the course within a particular department/division, some suffixes are standard throughout the University.

A, B, C, D, E A sequence of courses in which A must be taken before B, B before C, etc., unless description indicates otherwise.

C, K, S Sections of regular courses taught primarily in Cantonese (Chinese), Korean, or Spanish, usually as part of bilingual/crosscultural teacher training program. These suffixes appear in course listings in the *Schedule of Classes* and on transcripts, but not generally in the catalog.

H Open to students who are enrolled in the General Education Honors Program only.

IP Class taught in independently self-paced mode; hours arranged between student and instructor.

L Lecture.

M Open to students in Master of Fine Arts degree program in Art only.

N Upper division course intended for students not majoring in the department/division that offers it; usually has different kinds of prerequisites; student in major may not count course in major program, but may include it as an elective outside the major.

P Practicum, laboratory, or activity.

R Open to conditionally classified graduate students only.

Course Prerequisites and Corequisites

Students are responsible for fulfilling prerequisites and corequisites. The instructor and department/division have the authority to waive specific prerequisites and/or corequisites for students who have completed equivalent courses at another institution, who have had equivalent experience (such as work experience), or who possess the requisite skills to proceed with the work of the course. Students should consult the instructor before registering to determine whether the course(s) or experience they present will justify waiver of the stated prerequisite(s) and/or corequisite(s).

Course Abbreviations

Each academic discipline has an official course abbreviation that is used to identify the discipline in this catalog; on grade reports, transcripts, major program sheets, and many other documents; and in the *Schedule of Classes*. These course abbreviations, which are listed below, must be used on all program change forms.

Accounting	ACCT	Japanese	JAPN
Arts and Letters	AL	Journalism	JOUR
American Studies	AMER	Kinesiology and Physical Education	KPE
Anthropology	ANTH	Korean	KOR
Armenian	ARM	Latin	LATN
Art	ART	Latin American Studies	LAS
Asian American and Pacific Asian Studies	AAPS	Liberal Studies	LBS
Astronomy	ASTR	Library Science	LIBR
Athletics	ATHL	Management	MGMT
Biology	BIOL	Marketing	MKT
Broadcasting	BCST	Mass Communication	MSCM
Business Administration (interdepartmental)	BUS	Mathematics	MATH
Chemistry	CHEM	Mechanical Engineering	ME
Chicano Studies	CHS	Microbiology	MICR
Child Development	CHDV	Modern Languages	ML
Chinese	CHIN	Modern Languages Cooperative Program	MLCP
Civil Engineering	CE	Music	MUS
Classics	CLAS	Natural and Social Science	NSS
Communication Disorders	COMD	Nursing	NURS
Communication Studies	COMS	Nutritional Science	NTRS
Computer Information Systems	CIS	Pan-African Studies	PAS
Computer Science	CS	Philosophy	PHIL
Counseling	COUN	Physical Science	PSCI
Criminal Justice	CRIM	Physics	PHYS
Curriculum and Instruction	EDCI	Political Science	POLS
Dance	DANC	Portuguese	PORT
Economics	ECON	Psychology	PSY
Education (interdivisional)	EDUC	Religious Studies	RELS
Educational Administration	EDAD	Russian	RUSS
Educational Foundations	EDFN	Secondary Education	EDSE
Electrical Engineering	EE	Social Science	SOCS
Elementary Education	EDEL	Social Work	SW
Engineering (interdepartmental)	ENGR	Sociology	SOC
English	ENGL	Spanish	SPAN
Finance	FIN	Special Education	EDSP
French	FREN	Speech Communication	SPCH
Geography	GEOG	Teaching English to Speakers of Other Languages	TESL
Geology	GEOL	Technology	TECH
German	GERM	Thai	THAI
Health and Human Services	HHS	Theatre Arts	TA
Health Science	HS	Theatre Arts and Dance	TAD
Higher Education	EDHI	Traffic and Safety Engineering	TSE
History	HIST	University	UNIV
Instructional Technology	EDIT	Urban Analysis	URBA
Intercultural Proficiency	ICP	Vietnamese	VIET
Italian	ITAL	Women's Studies	WOMN
		Youth Agency Administration	YAA

Grading System

Undergraduate Grades

TRADITIONAL A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F.	Letters A, A-, B+, B, B-, C+, C, C-, D+, D, and D- indicate passing grades; F indicates failure.
NONTRADITIONAL CR/NC or A, A-, B+, B, B-, C+, C.	A, A-, B+, B, C+, C-, C, and CR indicate passing grades. CR, indicating passed with credit, is given for work equivalent to C or better for undergraduate students. NC, indicating no credit, is given for work equivalent to C-, D, D, D- or F for undergraduate students.

Explanation of Undergraduate Grades

Grade Symbol	Explanation	Grade Points
A	Superior Attainment of Course Objectives	4.0
A-	Outstanding Attainment of Course Objectives	3.7
B+	Very Good Attainment of Course Objectives	3.3
B	Good Attainment of Course Objectives	3.0
B-	Better than Average Attainment of Course Objectives	2.7
C+	Above Average Attainment of Course Objectives	2.3
C	Average Attainment of Course Objectives	2.0
C-	Below Average Attainment of Course Objectives	1.7
D+	Weak Attainment of Course Objectives	1.3
D	Poor Attainment of Course Objectives	1.0
D-	Barely Passing of Course Objectives	0.7
F	Nonattainment of Course Objectives	0.0
CR	Credit	not applicable
UC	No Credit	not applicable
I, IN	Incomplete	not applicable
J	Unauthorized Incomplete	0
SP	(Satisfactory Progress	not applicable
N	Withdrawal	not applicable
RD	Report Delayed	not applicable

Note: A grade of C- is a failing grade in all General Education Basic Subject courses because a minimum C grade is required in all of these courses. A C- is also a failing grade if a student takes a course CR/NC or A, B, C, NC. In addition, a grade of C- is a failing grade in all courses in majors that require minimum C grades.

Graduate and Postbaccalaureate Grades

TRADITIONAL A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F.	Letters A, A-, B+, B, B-, C+, and C indicate passing grades; letters C, D+, D, D- , and F indicate failure.
NONTRADITIONAL CR/NC.	CR, indicating passed with credit, is given for work taken by graduate and postbaccalaureate students, including 400-level courses, that is equivalent to B or better. NC, indicating no credit, is given for work equivalent to B-, C+, C, C-, D+, D, D- , or F , for postbaccalaureate and graduate students A course in which a postbaccalaureate or graduate student earns a grade below B- must be repeated; grades from both the original course and the repeated course are used in computing the grade point average.

Note:

Effective Fall Quarter 1996, the campus implemented a plus/minus grading policy. Thus, for all continuing students and all students admitted or readmitted to the University, Fall Quarter 1996 or later, plus/minus grades are calculated in both undergraduate and graduate grade point calculations.

Explanation of Graduate and Postbaccalaureate Grades

Grade Symbol	Explanation	Grade Points
A	Superior Attainment of Course Objectives	4.0
A-	Very Good Attainment of Course Objectives	3.7
B+	Better than Average Attainment of Course Objectives	3.3
B	Satisfactory/Average Attainment of Course Objectives	3.0
For graduate students, the following set of grades is below the minimum GPA of 3.0 required to remain in good standing. Students with grades of B- or lower will accrue deficiency points in those courses and will be required to compensate for those deficiencies by attaining grades higher than B in a comparable number of units, but those specific courses can not be repeated.		
B-	Unsatisfactory Attainment of Course Objectives; Course May Not Be Repeated	2.7
C+	Unsatisfactory Attainment of Course Objectives; Course May Not Be Repeated	2.3
C	Unsatisfactory Attainment of Course Objectives; Course May Not Be Repeated	2.0
The following grades are failing grades for a graduate student and will result in the accrual of deficiency points. Students who earn these grades will be required to compensate for the grade deficiencies by attaining grades higher than a B in a corresponding number of additional courses.		
C-	Nonattainment of Course Objectives; Course May Not Be Repeated	1.7
D+	Nonattainment of Course Objectives; Course May Not Be Repeated	1.3
D	Nonattainment of Course Objectives; Course May Not Be Repeated	1.0
D-	Nonattainment of Course Objectives; Course May Not Be Repeated	0.7
F	Nonattainment of Course Objectives; Course May Not Be Repeated	0.0

Definitions of Administrative Grading Symbols

Marks other than letter grades used to indicate status in courses undertaken have the following meanings:

CR is used to denote “**passed with credit**” when no traditional letter grade is given, is assigned to undergraduate grades of C (grade point 2.0 or higher) or better and to graduate grades of B (grade point 3.0 or higher) or better. CR grades are not included in the calculation of the grade point average.

NC is used to denote “**no credit**” when no traditional letter grade is given, is assigned to undergraduate grades lower than C (grade point lower than 2.0) and to graduate grades lower than B (grade point lower than 3.0). NC grades are not included in the calculation of the grade point average.

SP (Satisfactory Progress) is used for thesis, project, dissertation, and similar approved courses in which assigned work frequently extends beyond one academic quarter—and may include enrollment in more than one quarter. The SP indicates that the student’s performance has been evaluated and found to be satisfactory but that further work must be completed before a final grade (or grades) can properly be assigned for any part of the course. Enrollment for more units of credit than the total number of units that can be applied toward the fulfillment of the student’s educational objective is prohibited. The SP symbol shall be replaced with the appropriate final grade within one year of its assignment except for courses associated with the master’s degree thesis (courses numbered 597, 598, 599, and 900) and with the doctoral dissertation (courses numbered 698 and 699) in which case the time limit shall be five years. An SP does not add earned units and does not affect grade point average calculations.

An **SP** that has not been replaced by a final grade within the prescribed time limit for the course shall be changed to NC. Extensions of time to remove SP grades may be granted by the undergraduate studies subcommittee (for undergraduate courses) or the appropriate school graduate dean (for graduate courses) for contingencies such as—but not limited to—military service and health problems of an incapacitating nature verified by a physician’s statement.

W (Withdrawal) indicates that a student was permitted to drop a course after the “no-record drop” deadline with the approval of the instructor and the department/division chair. The W carries no connotation of quality of student performance and is not used in calculating grade point averages.

RD (Report Delayed) may be used when a delay in the reporting of a grade is caused by circumstances that are beyond the student’s control. The symbol will be replaced by a more appropriate grading symbol as soon as possible. An RD is not included in calculations of grade point average.

IN, I (Incomplete) An Incomplete grade is inappropriate for failing students. It is an interim grade designed for students who are passing but who through extenuating circumstances have not been able to complete all or part of the work of the last four weeks of the course. An Incomplete (IN) grade may be removed by completing the outstanding work within one calendar year after the end of the quarter in which it was assigned unless the time has been extended by the Undergraduate Studies Subcommittee or the Graduate Studies Subcommittee, as appropriate, for contingencies such as military service or health problems of an incapacitating nature verified by a physician’s statement. Any petition for extension of time to remove an incomplete must be filed within one calendar year immediately after the end of the quarter in which it was assigned. When the outstanding work has been completed during the time period allowed, the final grade will be reported to the Records Office. The time limitation prevails whether or not the student maintains continuous attendance.

An Incomplete that is made up within the time period allowed will be replaced on the permanent academic record by the letter grade earned followed by an explanation that the original grade was an Incomplete and the date that the Incomplete was removed.

An Incomplete that is not removed during the time period allowed will remain on the student's permanent academic record as an I and will be charged as an F in grade point average computations.

An Incomplete that is not removed before the degree being awarded will not be changed nor will it be charged as an "F" in the grade point average computations.

U (Unauthorized incomplete) indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average this symbol is equivalent to an *F*.

Nontraditional Grading Options

Undergraduates may choose to receive grades on a nontraditional basis, either *A*, *B*, *C*, *NC*, or *CR/NC*, under specified conditions. Some courses are graded only nontraditionally, as shown in course descriptions. In addition, students in good standing who have completed at least 12 units at Cal State L.A. and students admitted with upper division standing may elect to have some courses graded on either the traditional or the nontraditional basis. *CR* and *NC* grades are not included in grade point average computations.

CR/NC Option. Courses for which a student may not elect to be graded on a *CR/NC* basis are those courses required in the student's major, minor, or credential program and other courses selected to meet general education requirements. A maximum of 45 quarter units may be graded *CR/NC*, whether elected or designated. A maximum of 8 quarter units elected *CR/NC* may be taken in any single quarter.

A, B, C/NC Option. Courses for which a student may not elect to be graded *A*, *B*, *C/NC* are those required in the student's major, minor, or credential program; however, any general education or elective course may be taken with *A*, *B*, *C/NC* grading. A maximum of 45 quarter units within the total degree program may be graded *A*, *B*, *C*, *NC*, whether elected or designated.

Students may elect to register for a course with a nontraditional grading option up to the last date in the quarter to add classes. **The decision to elect an option is irrevocable.** Academic standards are identical for all students who are enrolled in a course, irrespective of the grading option. Instructors are not notified that students have elected nontraditional grading options in their courses; traditional grades are reported and are converted as needed to *CR* or *NC* by the registrar.

Scholastic Status of Undergraduate Students

Grades Required for Credit

Students are advised that they receive no credit for any course in which they do not earn a grade of *D* or higher.

Grade Point Requirements

Undergraduate students are expected to maintain a *C* (2.0) average in all courses attempted at Cal State L.A. and any other college or university attended and to make satisfactory progress toward their academic objectives. Students who receive financial aid should inform themselves of additional criteria defining satisfactory progress by consulting the Center for Student Financial Aid.

Probation for Undergraduate Students

Probation is determined separately for grade point deficiency and administrative-academic deficiency. Students' probation status is indicated on their grade report.

Grade Point Deficiency

Students are placed on academic probation if either their grade point average at Cal State L.A. or their cumulative grade point average in all college work attempted falls below *C* (2.0). They are continued on probation for grade point deficiency until their entire deficiency is removed or until they are disqualified in accordance with the regulations stated below.

Grade Point Average

The grade point average (GPA) is computed by dividing the total number of grade points earned by the total number of units attempted. Grade points are assigned for each unit of course work undertaken, as follows:

Grade Symbol	Explanation	Grade Points Earned
A	Superior	4.0 per unit value of course
A-	Outstanding	3.7 per unit value of course
B+	Very good	3.3 per unit value of course
B	Good	3.0 per unit value of course
B-	Better than average	2.7 per unit value of course
C+	Above average	2.3 per unit value of course
C	Average	2.0 per unit value of course
C-	Below average	1.7 per unit value of course
D+	Weak	1.3 per unit value of course
D	Poor	1.0 per unit value of course
D-	Barely passing	0.7 per unit value of course
F	Nonattainment	0.0 per unit value of course

Thus, students who earn a grade of *D* in a 3-unit course have 3 grade points fewer than the number they would have earned with a grade of *C*, and are therefore deficient 3 grade points from a *C* average (−3 grade points). Students who earn a *B* grade in a 3-unit course have three grade points more than they would have earned with a *C* grade (+3 grade points); an *A*, +6 grade points; or an *F*, −6 grade points. The overall grade point deficiency or surplus can be computed by assigning the number of plus or minus grade points for each unit attempted and adding algebraically. *CR* and *NC* grades are not included in grade point average computations.

Administrative-Academic Deficiency

The Office of the Chancellor has made provision whereby students may be placed on administrative-academic probation for any of the following reasons:

- Withdrawal from all or a substantial portion of courses for which they registered in two successive quarters or in any three quarters.
- Repeated failure to progress toward a stated degree or program objective when such failure is within their control.
- Failure to comply, after due notice, with a routine academic requirement or regulation.
- Written notice is given of the conditions required for removal from administrative- academic probation, as well as circumstances that would lead to disqualification if probation is not rectified.

Disqualification of Undergraduate Students

Disqualification is determined separately for grade point deficiency and for administrative-academic deficiency.

Grade Point Deficiency

Students who accumulate a deficiency of 22 or more grade points at Cal State L.A. or in all college work attempted are disqualified, regardless of whether they were on probation during the prior quarters. Students on probation whose cumulative grade point deficiency reaches the following levels are disqualified:

<i>Class Level</i>	<i>Deficiency</i>
Lower Division (0–89 units completed).....	22 grade points
Juniors (90–134 units completed)	13 grade points
Seniors (135+ units completed)	9 grade points

Administrative-Academic Deficiency

The Office of the Chancellor has made provision whereby students placed on administrative-academic probation may be disqualified for any of the following reasons:

- The conditions for removal of administrative-academic probation are not met within the period specified.
- Students become subject to academic probation while on administrative-academic probation.
- Students become subject to a new administrative-academic probation period for the same or similar reasons of a previous probationary period, although not currently in such status.

Notification of Disqualification

Students’ notices of disqualification appear on their grade reports. Students who wish to appeal their disqualification should refer to Immediate Reinstatement below. Disqualified students are required to arrange an exit interview with their academic adviser to establish readmission requirements. Undeclared majors will hold this exit interview with their assigned adviser in the University Academic Advisement Center.

Immediate Reinstatement

Disqualified students may submit a petition for immediate reinstatement to their school dean or designee (department chair in the schools of Engineering and Technology and Natural and Social Sciences) after the exit interview has taken place. The University Academic Advisement Center will rule on petitions for immediate reinstatement for undeclared majors after their exit interview has taken place. Students’ approved petitions must be received in Enrollment Services, Administration 146, by the end of the fifth week of the quarter after disqualification.

Immediate reinstatement may be granted for not more than two successive quarters to students who are pursuing the program in which disqualification was incurred, including an undeclared major. Students who are admitted with a grade point deficiency on transfer work and whose grades at Cal State L.A. alone are not the basis for disqualification may qualify for immediate reinstatement in additional quarters.

Students who are enrolled but not officially reinstated for the quarter after disqualification should file a request for complete withdrawal and full refund of fees by the end of the fifth week of the quarter. Official withdrawal and refund application forms are available at Administration 146. Complete withdrawal also may be accomplished by writing to the Registrar’s Office. Registration will be cancelled for disqualified students who are enrolled and do not file a withdrawal request; fees are not returned in these cases.

Special Probation

All disqualified students who are reinstated or readmitted are placed on special probation because their grade point deficiency is greater than the maximum allowed for their class level as outlined above. These students are required to earn better than a C (2.0) grade point average each quarter until their deficiency is removed or is reduced to the maximum allowed for their class level. Students who withdraw completely from any quarter while on special probation will again be disqualified.

Readmission of Disqualified Students

Readmission after disqualification is not automatic. Disqualified students will not be considered for readmission until at least two quarters have elapsed. Procedures and regulations governing readmission of disqualified students are found in the **Admissions** chapter of this catalog.

Disenrollment for Failure to Complete Required Subcollegiate Courses

Executive Order 665 requires that all first-time entering students in the California State University system who are not exempt from the English Placement Test (EPT) and the Entry Level Math (ELM) exam take these exams before enrolling in any courses and, if remediation is required, enroll in appropriate English and/or math course(s) in their first quarter of attendance. The policy stipulates that students must continue to enroll in appropriate level course(s) each quarter until they are eligible for college level English and/or math. Students have four consecutive academic quarters, starting with their first quarter at Cal State L.A., to complete these requirements. In addition, campus policy requires that students move directly into their college level English and/or math course(s) the first quarter they enroll after completing the remedial course(s) in that field.

Scholastic Status of Graduate and Postbaccalaureate Students

Grades Required for Credit

Graduate students are advised that they receive no credit for any course in which they do not earn a grade of C or higher. Grades of C– and below are considered failing grades in all graduate programs.

Grade Point Requirements

Graduate students are expected to maintain a B (3.0) average in all courses attempted at Cal State L.A. and any other college or university attended and to make satisfactory progress toward their academic objectives. Students who receive financial aid should inform themselves of additional criteria defining satisfactory progress by consulting the Center for Student Financial Aid.

Grade Point Average

The grade point average (GPA) is computed by dividing the total number of grade points earned by the total number of units attempted. Grade points are assigned for each unit of course work undertaken, as indicated in the Explanation of Grades table above.

Thus, students who earn a grade of C in a 4-unit course have 4 grade points fewer than the number they would have earned with a grade of B and are, therefore, deficient 4 grade points from a B average (–4 grade points). Students who earn an A grade in a 4-unit course have four grade points more than they would have earned with a B grade (+4 grade points). The overall grade point deficiency or surplus can be computed by assigning the number of plus or minus grade points for each unit attempted and adding algebraically. *CR* and *NC* grades are not included in grade point average computations.

Grade Symbol	Explanation	Grade Points Earned
A	Superior	4.0 per unit value of course
A–	Very Good	3.7 per unit value of course
B+	Better Than Average	3.3 per unit value of course
B	Satisfactory/Average	3.0 per unit value of course
B–	Unsatisfactory	2.7 per unit value of course
C+	Unsatisfactory	2.3 per unit value of course
C	Unsatisfactory	2.0 per unit value of course
C–	Failing	1.7 per unit value of course
D+	Failing	1.3 per unit value of course
D	Failing	1.0 per unit value of course
D–	Failing	0.7 per unit value of course
F	Failing	0.0 per unit value of course

Probation and Disqualification for Graduate Students

Graduate students are subject to the following probation and disqualification criteria for administrative-academic deficiencies:

Administrative-Academic Probation.

The Office of the Chancellor has made provision whereby students may be placed on administrative-academic probation for any of the following reasons:

- Withdrawal from all or a substantial portion of courses for which they registered in two successive quarters or in any three quarters.
- Repeated failure to progress toward a stated degree or program objective when such failure is within their control.
- Failure to comply, after due notice, with a routine academic requirement or regulation.

Notice is given in writing of the conditions for removal from administrative-academic probation, as well as circumstances that would lead to disqualification should probation conditions not be rectified.

Disqualification Regulations

- Classified graduate students whose grade point average in course work on their master's degree program falls below B (3.0) will be placed on scholastic probation. Classified graduate students whose grade point average falls below B (3.0) in all courses completed after admission to the program are subject to scholastic probation. If after being placed on scholastic probation they do not raise their average to B (3.0) after...
 - completion of 16 units or two quarters in residence, whichever comes later, they will be disqualified from pursuing the master's degree program in which they were classified. Classified graduate students whose grade point average falls more than nine grade points below B (3.0) will be disqualified from pursuing the master's degree program in which they were classified. If disqualified from a master's degree program, students may be admitted to another program only on the recommendation of the new major department/division concerned and with the approval of the appropriate school graduate dean.
 - Conditionally classified graduate students whose grade point average in course work on their master's degree program falls below B (3.0) will be placed on scholastic probation. Conditionally classified graduate students whose grade point average falls below B (3.0) in all units completed after becoming conditionally classified are subject to scholastic probation. If after being placed on scholastic probation they do not raise their average to B (3.0) after completion of 16 units or two quarters in residence, whichever comes later, or if they fail to achieve a B (3.0) in their qualifying courses, they will be disqualified from the master's degree program in which they were conditionally classified. If disqualified from a

master's degree program, conditionally classified students may be admitted to another program only on the recommendation of the new major department/division concerned, with submission of a new list of qualifying courses and the approval of the appropriate school graduate dean.

- Postbaccalaureate unclassified and postbaccalaureate classified students whose grade point average falls below 2.5 will be placed on scholastic probation. When, on scholastic probation, they do not raise their average to 2.5 after completion of 16 units or two quarters in residence, whichever comes later, they will be disqualified from pursuing course work at Cal State L.A.
- All units earned in the quarter in which the sixteenth unit is completed will be used in computing the grade point average.

- Students disqualified for scholarship deficiency may not enroll in any regular quarter at Cal State L.A. without permission from the appropriate school graduate dean and may be denied admission to other educational programs operated or sponsored by the campus.
- Students who are enrolled in graduate degree programs, credential programs, and postbaccalaureate credit certificate programs are not eligible for Academic Renewal.
- Postbaccalaureate students who are pursuing a second or subsequent baccalaureate are subject to the same probation and disqualification standards as seniors. These are outlined in the Procedures and Regulations section near the front of this catalog.

Student Conduct: Rights and Responsibilities

Cal State L.A. assumes that all students will conduct themselves as mature citizens of the campus community and that they will comply with University policies and regulations. Inappropriate conduct by students or applicants for admission is subject to discipline as provided in Sections 41301-41304 of *Title 5, California Code of Regulations*. (See Appendix D in this catalog.) Copies of the CSU Student Disciplinary Procedures, which govern enforcement of these regulations, are available from the Office of the Vice President for Student Affairs, Student Affairs 108.

Student Grievances

An official Statement of Student Rights and Responsibilities enumerates the rights guaranteed to, and the responsibilities of, all Cal State L.A. students and contains the procedures to be followed for the redress of grievances. Copies of this document are available at the Office of the Vice President for Student Affairs (SA 108) and the office of each school dean and each department/division chair.

Adequate safeguards have been instituted to protect the rights of students and the University and to ensure that grievances are handled fairly. The grievance procedure is but one channel for solving problems and should not take the place of negotiating in good faith or open, honest communication.

Grievances are formal complaints by students arising out of alleged actions of the University or its faculty, administrators, or officers, such actions being alleged by students to be unauthorized or unjustified and adversely to affect students' status, rights, or privileges, including actions based on race, color, religion, sex, sexual orientation, national origin, age, handicap, or veteran status.

Student Discipline

Incidents of violation of Section 41301A–M, *Title 5, California Code of Regulations*, detailed in Appendix D, may be reported to the Vice President for Student Affairs, Student Affairs 108.

Cheating

Instructors have the responsibility of planning and supervising all academic work, to encourage honest individual effort, and taking appropriate action if instances of academic dishonesty are discovered. However, honesty is primarily the responsibility of each student. The University considers cheating to be a voluntary act for which there may be reasons,

but no acceptable excuse. The term "cheating" includes, but is not limited to:

- Plagiarism.
- Receiving or knowingly supplying unauthorized information during an examination.
- Using unauthorized material/sources during an examination.
- Changing an answer after work has been graded, and presenting it as improperly graded.
- Taking an examination for another student or having another student take an examination for you.
- Forging or altering registration or grade documents.

Students who are caught cheating may be subject to loss of credit for the assignment. If issuing a punitive grade, the instructor shall report it to the Vice President for Student Affairs and may recommend that appropriate action be taken through the Student Discipline Procedures of The California State University.

Writing and Plagiarism

Plagiarism is a direct violation of intellectual and academic honesty. Although it exists in many forms, all plagiarism refers to the same act: representing somebody else's words or ideas as one's own. The most extreme forms of plagiarism are the use of a paper written by another person or obtained from a commercial source, or the use of a paper made up of passages copied word for word without acknowledgement. Paraphrasing an author's idea or quoting even limited portions of his or her text without proper citation is also an act of plagiarism. Even putting someone else's ideas into one's own words without acknowledgement may be plagiarism.

In none of its forms can plagiarism be tolerated in an academic community. It may constitute grounds for a failing grade, probation, suspension, or expulsion.

One distinctive mark of an educated person is the ability to use language correctly and effectively to express ideas. Faculty assign written work to help students achieve that mark. Each professor will outline specific desiderata, but all expect students to present work that represents the students' understanding of the subject in the students' own words.

It is seldom expected that student papers will be based entirely or even primarily on original ideas or original research. Therefore, incorporating the concepts of others may be appropriate with proper acknowledgement of sources, and quoting others directly by using quotation marks and acknowledgements is proper. However, papers that consist entirely of quotations and citations should be rewritten to show the student's own understanding and expressive ability. The purpose of a written assignment (i.e., development of communication and analytic skills) should be kept in mind as each paper is prepared and should not be evaded through plagiarism.

Sexual Harassment Policy

California State University, Los Angeles will take action to prevent and eliminate sexual harassment, as mandated by Chancellor's Executive Order No. 345.

Sexual harassment is conduct subject to disciplinary action, including termination. Sexual harassment includes but is not limited to:

- Unwanted sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature.
- Any act that contributes to a workplace or learning environment that is hostile, intimidating, offensive, or adverse to persons because of the sexual nature of the conduct.
- Conditioning an act, decision, evaluation, or recommendation on the submission to or tolerance of any act of a sexual nature.

Although this policy focuses on the treatment of persons lacking or holding lesser authority by persons possessing greater authority, it does not preclude the possibility that sexual harassment may also be perpetrated by persons lacking or holding lesser authority, e.g., employees, students, or applicants. In determining whether conduct constitutes sexual harassment, the circumstances surrounding the conduct are considered.

The prohibition against sexual harassment applies to all transactions of University business, whether on or off campus.

Individuals with supervisory authority are responsible for reporting a formal complaint about sexual harassment to a designated complaint investigator. Failure to do so may lead to appropriate administrative action.

Specific rules and procedures for reporting charges of sexual harassment and for pursuing available remedies are available in the following locations: Division of Human Resource Management, Office for Equity and Diversity; Office of the Vice President for Student Affairs; University Counseling Center; and Women's Resource Center.

For questions about sexual harassment, please contact the Office for Equity and Diversity, Administration 605, (323) 343-3040

Procedures for Reporting Sexual Harassment

Specific rules and procedures for reporting charges of sexual harassment and for pursuing available remedies are available in the following locations: Human Resource Management/Office for Equity and Diversity, Administration 605; Office of the Vice President for Student Affairs, Student Affairs 108.

Campus Violence Policy

California State University, Los Angeles is committed to creating and maintaining a working, learning, and social environment for all members of the University community that is free from violence.

Civility, understanding, and mutual respect toward all members of the University community are intrinsic to excellence in teaching and learning, to the existence of a safe and healthful workplace, and to maintenance of a campus culture and environment that serves the needs of its many constituencies. Threats of violence or acts of violence not only impact the individuals concerned, but also the mission of the University to foster higher education through open dialogue and the free exchange of ideas. The University prohibits and will take decisive action to eliminate verbal harassment, violent acts, threats of violence, or any other behavior that by intent, action, or outcome harms another person. Such conduct is subject to disciplinary action up to and including dismissal from employment, expulsion from the University, or civil or criminal prosecution as appropriate.

The University has no tolerance for violence against and by members of the University community. To fulfill this policy, the University will work to prevent violence from occurring and will ensure that federal and state laws, as well as University regulations prohibiting violence, are fully enforced. In determining whether conduct constitutes a credible threat or act of violence, the circumstances surrounding the conduct will be considered.

Established University faculty, staff, and student and Department of Public Safety procedures will serve as mechanisms for resolving situations of violence or threats of violence. Each allegation of violence or threat of violence will be taken seriously. Individuals are encouraged to report acts of violence, threats of violence, or any other behavior that by intent, act or outcome harms another person.

Compliance with Americans with Disabilities Act (ADA)

California State University, Los Angeles does not discriminate on the basis of disability in admission to, access to, or operation of its instruction, programs, services, or activities, or in its hiring and employment practices. The University provides reasonable accommodation to facilitate the participation of covered individuals with disabilities.

Questions, concerns, complaints and requests for reasonable accommodation or additional information may be forwarded to the Office for Equity and Diversity, the campus once assigned responsibility for compliance with the ADA. The Office for Equity and Diversity is located in Administration 604C, and open Monday through Friday, 8:00 a.m. to 5:00 p.m., (323) 343-3040 (voice) or (323) 343-3270 (TDD).

Familiarity with the institution's rules and regulations published in this catalog shall be the responsibility of each student and faculty member, and of those administrative ounces concerned with academic matters.

Nondiscrimination Policy

California State University, Los Angeles affirms its commitment to equality of opportunity for all individuals. This commitment requires that no discrimination shall occur in any program or activity of the University on the basis of race, color, religion, national origin, sex, sexual orientation, marital status, pregnancy, age, disability, disabled veteran's or

Vietnam era veteran's status, or any other classification that precludes a person from consideration as an individual. This policy is in accord with Title IX of the Educational Amendments of 1972, as amended, Sections 503 and 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and related administrative regulations and executive orders. Inquiries about the application of Title IX, Sections 503 and 504, and other nondiscrimination laws may be referred to the Office for Equity and Diversity, (323) 343-3040, the campus office assigned the administrative responsibility of reviewing such matters. Title IX inquiries may also be directed to the Regional Director of the Office for Civil Rights, Region IX, Old Federal Building, 50 United Nations Plaza, Room 239, San Francisco, CA 94102. Compliance with the Americans with Disabilities Act (ADA).

California State University, Los Angeles does not discriminate on the basis of disability in admission to, access to, or operation of its instruction, programs, services, or activities, or in its hiring and employment practices. The University provides reasonable accommodation to facilitate the participation of covered individuals with disabilities.

Consensual Sexual Relations between Faculty and Students*

(Senate: 7/29/97; President: 12/4/97)

"Sexual relations between students and faculty members with whom they also have an academic or evaluative relationship are fraught with the potential for exploitation. The respect and trust accorded a professor by a student, as well as the power exercised by the professor in an academic or evaluative role, make voluntary consent by the student suspect. Even when both parties initially have consented, the development of a sexual relationship renders both the faculty member and the institution vulnerable to possible later allegations of sexual harassment in light of the significant power differential that exists between faculty members and students."

"In their relationships with students, members of the faculty are expected to be aware of their professional responsibilities and avoid apparent or actual conflict of interest, favoritism, or bias."

**the language in quotation marks is the statement that was adopted by the 81st annual meeting of A.A.U.P.*

It is unprofessional conduct for a faculty member to engage in any sexual relationship with a student while he or she is enrolled in that faculty member's class, or if a faculty member is acting in any other capacity that may directly affect the student's academic career.

Failure to follow these standards will be grounds for investigation for disciplinary action.

Student Use of Human Subjects or Animals

Students, like all others in the University community, must follow established University and federal guidelines when using human subjects or animals either in research or as part of a course activity. Prior approval by either the Institutional Review Board for research involving human subjects or the Institutional Animal Care and Use Committee for research involving animals must be obtained. The committees meet at regularly scheduled times and it is crucial to give notice of the impending research or course use as far in advance as possible.

For further information, please contact the Office of Research and Sponsored Programs (323) 343-5366 or visit its World Wide Web site at web.calstatela.edu/academic/orsp.

Immigration Requirements for Licensure

Students who will require a professional or commercial license provide by a local, state or federal government agency to engage in an occupation for which the California State University may be training them must meet the immigration requirements of the new *Personal Responsibility and Work Opportunity Reconciliation Act* (California Public Law 104-193, which is also known as the *Welfare Reform Act*) to receive licensure. Information about this regulation is available from Alois Green, Immigration Counselor, in the International Student Services office, telephone (323) 343-3170.

Undergraduate Studies: General Information

List of Bachelor's Degrees Including Majors and Minors

List of Credit Certificate Programs

Characteristics of and Requirements for Bachelor's Degrees

Other Bachelor's Degree Regulations

The General Education Program

Teaching Credentials: Basic Information on Undergraduate Preparation

Multiple Subject Program Requirements

Academic Support Programs

Pre-Professional Study

Credit Certificate Programs

Recognition of Academic Excellence and Honors Programs

Career Placement Information

Undergraduate Studies

Introductory Comments

California State University, Los Angeles offers the Bachelor of Arts, Bachelor of Music, Bachelor of Science, and Bachelor of Vocational Education degrees. The specific bachelor's degrees and academic majors are listed below. Minors and certificate programs are also available in many fields, and are also listed below. Full descriptions of each of these programs, including specific information about admission requirements, curriculum, courses of instruction, and graduation requirements is presented either in the chapter **Academic Programs: Department, Division, and Interdisciplinary-based** or in the chapter **Academic Programs: School-based and University-wide**. Within each chapter, the administrative units offering the academic programs are listed in alphabetical order. There is a **Director of Academic Programs** at the beginning of the **Directories** chapter, near the front of this catalog. Characteristics of the different Bachelor's degrees and the general degree requirements for all Bachelor's Degrees at Cal State L.A. are described after the listings immediately below.

In addition, the basic information about undergraduate preparation for California teaching credentials is presented later in this chapter. The undergraduate and post-baccalaureate subject matter portions of each of the teaching credential programs are fully described in the appropriate academic department, division or interdisciplinary programs section of that **Academic Programs** chapter. All of the basic credential programs, the specialist and administrative credential requirements, and the Post-baccalaureate programs of study which prepare students for these credentials are all described in the **Charter School of Education** portion of the **Academic Programs: School-based and University-wide** chapter, with further details available within the Divisional portions of the **Academic Programs: Department, Division and Interdisciplinary-based** chapter.

Students are expected to familiarize themselves with all degree requirements and to consult an academic adviser on a regular basis.

List of Bachelor's Degrees and Majors

Bachelor of Arts Degrees

Afro-American Studies
 Anthropology
 Art
 Chemistry
 Child Development
 Communicative Disorders
 Economics
 English
 French
 Geography
 History
 Industrial Arts
 Japanese
 Latin-American Studies
 Liberal Studies
 Mathematics
 Mexican-American Studies
 Music
 Philosophy
 Physics
 Political Science
 Psychology
 Radio and Television Broadcasting
 Social Science
 Social Work
 Sociology
 Spanish
 Special Major
 Speech Communication
 Theatre Arts and Dance

Bachelor of Science Degrees

Biochemistry
 Biology
 Business Administration
 Chemistry
 Civil Engineering
 Computer Information Systems
 Computer Science
 Criminal Justice
 Electrical Engineering
 Engineering
 Fire Protection Administration and Technology
 Geology
 Health Science
 Industrial Technology
 Mathematics
 Mechanical Engineering
 Microbiology
 Natural Science
 Nursing
 Nutritional Science
 Physical Education
 Physics
 Rehabilitation Services
 Special Major

Bachelor of Music Degree

Music

Bachelor of Vocational Education Degree

Vocational Arts

List of Minors

That may be taken as part of a Bachelor's Degree Program

Accounting
 Anthropology
 Art
 Asian Studies
 Basic Business
 Biology
 Chicano Studies
 Child Development
 Chinese
 Classics
 Comparative Linguistics
 Computer Information Systems
 Computer Science
 Creative Writing
 Criminal Justice
 Economics
 English
 French
 General Political Science
 Geography
 Geology
 Health Science
 History
 Industrial Studies
 Japanese
 Latin-American Studies
 Management
 Mathematics
 Microbiology
 Music
 Pan-African Studies
 Philosophy
 Physics
 Prelaw
 Psychology
 Public Administration
 Religious Studies
 Social Gerontology
 Sociology
 Spanish
 Speech Communication
 Theatre Arts and Dance
 World Politics
 Women's Studies

List of Credit Certificate Programs

Accounting
 Advanced Information Systems
 Alcohol and Drug Problems Specialist
 Applied Gerontology
 Cartography, Geographic Information Systems and Remote Sensing
 Child Maltreatment and Family Violence
 Computer Programming
 Electronics Technology
 Entrepreneurship
 Fashion Design
 Fashion Merchandising
 Finance
 Fire Protection Risk Analysis and Reduction
 Fire Service Administration
 General Management
 Human Resources Management
 Intercultural Proficiency
 Interior Design
 International Business
 International Business Communication
 International Economic Relations
 Labor Relations
 Marketing
 Obstetrics-Gynecology Nurse Practitioner
 Occupational Safety and Health
 Office Systems
 Operations Management
 Retail Professional Development
 Transportation (Commercial)
 Urban Land Use and Property Analysis
 Youth Agency Administration

Rules and regulations governing certificate programs and brief descriptions of these programs appear at the end of this chapter. Specific requirements and course listings appear in the individual academic department and division listings following this chapter.

Bachelor's Degree

Degree Characteristics

The Bachelor of Arts (B.A.) degree is designed to provide a balanced liberal arts education and general knowledge in a recognized discipline, interdisciplinary field, or areas of professional study.

The Bachelor of Science (B.S.) degree is designed to provide a balanced liberal arts education and a scientific, technical, or professional entry level of competence.

The Bachelor of Music (B.M.) degree provides a balanced liberal arts education with additional preparation in musical performance with emphasis on high performance standards.

The Bachelor of Vocational Education (B.V.E.) degree, created through state legislation, is designed specifically for vocational/occupational teachers who are required to have both work and teaching experience.

Degree Requirements

The Bachelor of Arts and Bachelor of Vocational Education degrees each require the satisfactory completion of 186 quarter units. The Bachelor of Music degree requires 189 quarter units and the Bachelor of Science degree unit requirement varies from 186 to 205 units, as specified individually for each degree program. Included in the total unit requirement for each of these degrees is a minimum of 72 units of general education courses, including the units necessary to complete mandatory requirements for the U.S. Constitution and American History and Ideals, 12 units in an upper division theme, and 12 units in residence at Cal State L.A. For each degree a minimum of 60 quarter units must carry upper division credit (courses numbered 300–499). Courses numbered above 499 are intended for graduate students only and are not applicable toward bachelor's degrees.

Catalog Requirements Under Which an Undergraduate Student Graduates

Unless exception is requested under one of the provisions below, students enrolling at Cal State L.A. for the first time must meet degree requirements specified in the catalog in effect at the time of entrance. The catalog date is specified on each student's credit summary.

Baccalaureate students who remain in attendance in regular sessions at any California State University campus, any California community college, or any combination of California community colleges and CSU campuses and thereafter at Cal State L.A. may elect to meet Cal State L.A. graduation requirements in effect at the time they began such attendance, at the time they entered Cal State L.A., or at the time of graduation from Cal State L.A. In this context, attendance means attendance in at least one semester or two quarters each calendar year, excluding summer session, extension, and concurrent enrollment in Cal State L.A. courses. Absence due to an approved educational leave or for attendance at another accredited institution of higher learning shall not be considered an interruption in attendance if the interruption does not exceed two years. Disqualified students retain their existing catalog privileges under the conditions outlined above.

All other transfer students and students who have not remained in attendance as described above will be held to Cal State L.A. graduation requirements in effect at the beginning of their most recent period of attendance at Cal State L.A. or,

alternatively, at the time of graduation. Students who change to a new degree and/or major objective must meet requirements for the new degree and/or major in the catalog in effect at the time of change. If courses described under earlier requirements are no longer available, the major department or division may authorize or require appropriate substitutes.

General Education is an integral component of the requirements for the bachelor's degree. Students who remain in attendance as defined above normally will meet General Education requirements listed in the catalog in effect at time of entrance. However, they may elect to meet General Education requirements in the catalog in effect either at the time of entrance or graduation, and need not meet major requirements from the same catalog. If courses described under earlier requirements are no longer available, appropriate substitutes must be selected from the current list of courses approved for the area involved.

Time Limits on Major

Requirements for Bachelor's Degrees

A department or division may specify that no subject, unit, or grade credit be granted for specific upper division courses offered by that department or division to students who completed such courses more than ten years before the date of their bachelor's degree. Courses with time limits are designated in the course descriptions in this catalog and on the major program advisement sheets submitted by each student's major department or division to the Graduation Office. When a Cal State L.A. course is so designated, the restriction also applies to equivalent courses transferred from other institutions. Students may petition for and, in extraordinary circumstances, the major departments and divisions may grant permission to validate by examination such an expired course with the concurrence of the department or division that offers the course or its equivalent. For all requirements, election of any catalog will not extend beyond ten years after its designated academic year.

Residence Requirement

Undergraduate students must complete a minimum of 45 quarter units, including at least 36 upper division units, 18 units in the major, and 12 units in general education courses, in residence at Cal State L.A. for the baccalaureate. Credit earned in special sessions may be applied toward this residence requirement. However, only 36 residence units may be earned through Open University. Credit earned in extension courses or by examination may not apply toward the residence requirement.

Scholarship Requirements

In addition to meeting total unit requirements for graduation, students must also satisfy specific scholarship requirements. These include achievement of a minimum 2.0 grade point average (C on a scale in which A=4.0) in all units attempted, including those accepted by transfer from another institution, all courses required for the major, all courses used to meet General Education requirements, and all units attempted at Cal State L.A.

Introduction to Higher

Education Course Requirement

All undergraduate students who do not have a bachelor's degree and enter Cal State L.A. Fall 1997 or later, and who are subject to the 1997-99 and later requirements, are required to

complete a 100-level introduction to higher education course. This course, which must be completed no later than the second quarter of residence at Cal State L.A., introduces students to the following aspects of the University: History, structure, policies and procedures, faculty expectations, resources and skills necessary for success, and content specific to disciplines in the school in which the student is majoring. The course is offered by the schools for their majors and graded Credit/No Credit. Special sections of the course, organized at the University level, are offered for undeclared students. Students should consult their academic advisers before enrolling in the course.

Writing Skills Requirements

All CSU students must demonstrate competence in writing skills as a requirement for graduation. Students must satisfy lower and upper division writing skills requirements.

Lower Division Writing Requirement

The English Placement Test (EPT), described in the **Admissions** chapter of this catalog, must be taken before enrolling in any courses at Cal State L.A. The EPT is prerequisite to all lower division English writing courses.

All baccalaureate students who enter Cal State L.A. Summer 1993 or later, and who are subject to requirements of the 1993-95 or later general education catalog, are required to take two quarters of English composition (ENGL 101 and 102), which must be taken in sequence. Students entering Cal State L.A. as freshmen must complete these courses before they reach upper division standing (90 quarter units). Transfer students entering above the freshman level who are required to take one or both of these composition courses must do so before they complete 45 quarter units at Cal State L.A. Only the first of the two courses (ENGL 101) is applied to General Education. The second course (ENGL 102) is prerequisite to UNIV 400 (WPE).

Upper Division Writing Requirements

All Cal State L.A. students who entered Summer 1984 or later and are pursuing a degree or credential are required to pass the Writing Proficiency Examination (WPE) prior to completion of the 135 quarter units. ENGL 101 and 102 are prerequisites to the examination. Transfer students who have completed 135 units upon entrance must pass the WPE during their first quarter of residence at Cal State L.A. Students who have satisfied the upper division writing proficiency requirement at another institution with an implied level of achievement at least equivalent to that at this campus shall be considered to have met the Cal State L.A. requirement.

Students who fail to take and pass the WPE within the required time limit of 135 units will have a hold placed on their records, which will preclude them from enrolling in any courses until the WPE requirement is satisfied. Students who receive a No Credit (NC) grade on the WPE must meet with a WPE consultant in the University Writing Center to discuss deficiencies identified by the exam and receive recommendations of activities to correct these deficiencies. Based on the recommendations from the WPE consultant, students may re-take the WPE or enroll in UNIV 401, the upper division writing proficiency course.

To take the WPE, students must register for UNIV 400 by the add deadline of each quarter. Additional information about the WPE is available in the *Schedule of Classes* and at the University Writing Center.

The postbaccalaureate writing skills requirement—for students pursuing graduate degrees and credentials—is described in the **Graduate and Postbaccalaureate Study: General Information** chapter.

Summary of Bachelor's Degree Requirements

Total units required for degrees:	
Bachelor of Arts (B.A.)	186 units
Bachelor of Music (B.M.)	189 units
Bachelor of Science (B.S.)	186–204 units (depending on major)
Bachelor of Vocational Education (B.V.E.)	186 units

Writing skills requirements (for all Bachelor's Degrees):
<ul style="list-style-type: none"> a minimum grade of "C" in ENGL 101 and 102, and a a passing score on the Writing Proficiency Examination (WPE) OR a minimum grade of "C" in UNIV 401, and a minimum grade of "C" in an upper division writing course designated by the major.

Grade point average: *
Minimum C (2.0) average in:
<ul style="list-style-type: none"> all college work attempted all courses attempted at Cal State L.A. all general education courses all courses required for major**
* Students receive no credit for any course in which they do not earn a passing grade -- i.e., D- or higher.
** Some majors require a minimum C grade in each course that is used to fulfill major requirements.

Required Distribution of Units (for all Bachelor's Degrees):
General education:
72 units, including:
<ul style="list-style-type: none"> 12 in residence 12 in an upper division theme
Major subject area:
Varies depending on major
Upper division units
60 units minimum
In residence
45 units at Cal State L.A. including:
36 upper division units
18 units in a major
12 units in general education
Introduction to Higher Education course
One course
One course (Engl 102) in written communication beyond the General Education Requirement
4 units

Other Bachelor Degree Regulations

Preliminary Evaluation of College Work Completed Elsewhere

College work completed elsewhere is evaluated in terms of its relevance to Cal State L.A. course offerings and degree requirements. Preliminary evaluation information is sent to all new transfer and readmitted students at the time of notification of eligibility for admission to the University. A complete evaluation of transfer work is mailed to all new transfer and readmitted students during their first quarter of attendance. The evaluation identifies general education and graduation requirements met by transfer courses and transfer unit credit accepted. For readmitted students, it also identifies general education and graduation requirements met by Cal State L.A. courses. Students should review their evaluation carefully, consult their academic department promptly if they do not agree with or fully understand all information on the evaluation, and keep it in a safe place for easy reference. Determination of the catalog governing graduation requirements is explained below.

Special Major for the Bachelor's Degree

The Bachelor of Arts or Bachelor of Science degree with a Special Major allows selected students an opportunity to pursue individualized programs of study if their academic and professional goals cannot be met through existing degree programs, or combinations of programs (i.e., majors, minors, etc.), at CSLA or other CSU campuses. The Special Major consists of a program of study in two or more disciplines developed in consultation with faculty members from the respective departments. See the University Programs section of the ***Academic Programs: School-based and University-wide*** chapter for details about these degree programs.

Multiple Majors

Students who wish to have multiple majors for one baccalaureate listed on their diploma and transcript must:

- Fulfill department/division requirements in the several majors;
- File a request endorsed by the several departments and divisions to the dean(s) of the appropriate school(s); and
- Be approved and recommended for graduation by the faculty of each major department or division.

Note: Students cannot simultaneously earn a B.A. and B.S. degree.

Second Baccalaureate

Students seeking a second baccalaureate from Cal State L.A. may qualify for graduation with the approval and recommendation of the faculty upon completion of the following:

1. Residence and scholarship requirements then in effect;
2. A major program as specified by the major department;
3. Completion of a minimum of 45 quarter units in residence beyond the requirements of the first degree. The 45 quarter units in residence must include at least 36 units in upper division courses, at least 18 units in the second academic major and 12 units in general education if applicable;

4. General education requirements as appropriate;

- A) A student completing a baccalaureate program at Cal State L.A. who remains in continuous attendance will not be required to complete additional G.E. requirements for the second baccalaureate degree.
- B) A student who has completed a baccalaureate program at Cal State L.A. who returns to complete a second baccalaureate degree will be required to complete 12 units of upper division G.E. units if this requirement was not satisfied with the first degree. A student must complete two G.E. courses designated as "diversity" courses, that can be counted as part of the 12 units of upper division G.E. requirements.
- C) A student who completes a baccalaureate degree from another accredited institution will be required to complete the following G.E. requirements if they were not completed as part of the first degree:
 - i. Breadth requirements of Executive Order 595, i.e. 16 units in each of the three areas (including 4 upper division units in each) of natural sciences and math, humanities, and social sciences. Course by course articulation or comparability will not be required. Sub-blocks (B1, B2, B3) will not be considered, i.e., the G.E. block as a whole will be evaluated.
 - ii. Statutory requirements, i.e., U.S. History and California state and local government.
 - iii. Diversity requirement, i.e., completing two G.E. courses designated as "diversity" courses.

Units included in a second baccalaureate program may not be applied to a graduate degree. Candidates for second baccalaureates are eligible for the Dean's List and other academic honors based on the same criteria as candidates for first degrees. A second baccalaureate candidate may graduate with honors according to the same criteria as candidates for first degrees, with the grade point average computed on all units attempted in residence at Cal State L.A.

Minors

Although a minor is not required for a baccalaureate, minors are available in many fields for the purpose of strengthening students' preparation in areas related to the major field or to career choices. A minor may not be taken in the same subject as the major.

A minor consists of a formal aggregate of courses totaling 18 or more quarter units, of which at least 12 units must be upper division and taken in residence at Cal State L.A. A minimum C (2.0) grade point average is required on all course work taken to complete the minor program. The minor will be noted on the student's transcript if the individual program has been approved by the offering department or division and is completed at the same time as the work for the degree itself. Requirements for the minor must be completed either before or simultaneously with requirements for the degree. Minors will not be granted if any requirement of the minor is completed after requirements for the degree. Interested students should consult an adviser in the department or division offering the minor of their choice. A list of the approved minors appears at the beginning of this chapter.

Undergraduate Credit for Graduate Courses

Under extraordinary academic circumstances as specified below, the University Undergraduate Studies Subcommittee (USS) may approve the granting of baccalaureate credit for 500-level course work to a maximum of two courses not to exceed a total of 8 quarter units. The following conditions must be met:

- Senior standing at the time of petition (completion of 135 quarter units);
- grade point average of 3.5 in the major;
- submission of a petition to the Undergraduate Studies Subcommittee (USS) at least one full quarter in advance of the quarter in which the courses are to be taken; and
- submission of a letter of recommendation from the instructor of the 500-level course(s), endorsed by the chair of the student's major department or division and by the chair of the host department or division if the proposed course is not in the student's major department or division.

Graduate Credit for Undergraduate Students

Except for provisions for outstanding seniors described above and for vocational teachers enrolled for the community college credential and the BVE degree, graduate course credit may not be applied toward a baccalaureate. In their final quarter of undergraduate study, students may apply toward graduate credit a maximum of eight units in courses beyond the minimum requirements for the baccalaureate, provided they have maintained a minimum 2.5 grade point average in all upper division work. Students with a 3.0 average or higher may include in this allowance one 500-level course. Any course for which graduate credit is requested must be approved in advance by the graduate adviser in the department or division in which the master's degree is to be taken.

The approved application must be delivered to the Graduation Office, Administration 409, during the quarter before that in which courses are to be taken. Graduate credit is allowed for courses numbered in the 400 and 500-series only.

Application for Graduation (Degree Check)

Once a minimum of 145 quarter units are earned, students may apply for graduation (degree check). Applications are available in a candidates major department or division and in Administration 146 five days before the first day of the application filing period. The filing periods are published each quarter in the **Graduation Information** section of the Schedule of Classes.

Students first take the completed application to the cashier's office for payment and then to their major department for approval. Students arrange with the department to have the Bachelors Degree Worksheet completed and approved by an adviser who will also finalize the Major Program. If approved, the department will forward all documentation to the Graduation Office for processing. The Graduation Office notifies students of the receipt of their graduation application and supporting documents. All incomplete applications are returned to the appropriate major department/division office for completion and resubmission during the next available filing period.

Results of graduation checks are sent to students no later than the add deadline of their anticipated final quarter. All questions regarding the graduation check procedure or final results are to be directed to the student's major department or division. Students who are enrolled in the quarter they expect to graduate but who do not complete all degree requirements will have their graduation application "automatically" transferred to the next quarter for processing. If the student is still ineligible to graduate at the end of the second quarter, another graduation application, with the required fee and all supporting documents, must be resubmitted for the next available filing period.

Degrees are granted at the end of the quarter in which all requirements are met, not when the graduation application is submitted for processing.

Commencement Exercises

Commencement is held annually at the end of the Spring Quarter. Students who have completed degree requirements the previous Summer, Fall, or Winter Quarter are eligible to participate in the ceremony along with those who complete their work in the Spring Quarter. Information bulletins about commencement activities are mailed to the home address of those eligible to participate early in the spring, and are available on campus at school and department and division offices and Administration 146 and 409.

During Commencement Exercises, degrees are conferred on the candidates by the President of the University. Although each candidate receives a diploma cover during the program, the actual diploma is sent 4 to 6 weeks after the degree is officially posted by the Graduation Office. A letter of congratulations is sent to students who graduate shortly after the degree is posted on the permanent academic record.

Credit for Prior Experiential Learning (CPEL)

Through the CPEL program, Cal State L.A. grants undergraduate academic credit for prior learning, knowledge, or skills-based experience that has been documented and evaluated according to campus policy. Students should be aware, however, that policies for earning credit for prior learning vary among CSU campuses. See the **University-wide** programs section of the **Academic Programs: School-based and University-wide** chapter for more details about this program.

Cooperative Education

Cal State L.A. offers a range of Cooperative Education courses carrying different unit values. The Cooperative Education program provides educational enhancement by integrating classroom studies with related on-the-job experiences. With department approval, students may earn a maximum of 12 quarter units of elective credit toward an academic major or minor, including a maximum of 9 transferred quarter units. A maximum of 16 quarter units earned in cooperative education may apply toward a baccalaureate. With department approval, from 1 to 4 units of credit can be earned per quarter, based upon a minimum 10 hours per week of approved work experience for each unit of credit. Cooperative education may be offered in any department or division. For details see the **University-wide** section of the **Academic Programs: School-based and University-wide** chapter.

Internship in Public Service

The Internship in Public Service program combines individual instruction with practical experience in government agencies and quasi-public enterprises. Although enrollment usually is restricted to Political Science majors, non-majors with appropriate background and preparation may apply. The program operates similarly to the Cooperative Education program, except that the maximum 6 units earned may apply only to upper division free elective credit rather than toward the major. A qualifying civil service examination is required for admission to some internship programs. Information about opportunities and qualifications may be obtained from the coordinator in the Political Science Department.

The General Education Program

Introduction

The California State University (CSU) requires that each baccalaureate graduate have completed a program of general education breadth requirements in addition to a major program of study. The general education program is designed to ensure that graduates “have made noteworthy progress toward becoming truly educated persons.” Although the general areas of study and minimum unit requirements within them are prescribed by the CSU Board of Trustees, the individual campuses are given the authority to set course requirements within those areas, to add other requirements, and to enact other regulations. California State University, Los Angeles has designed its general education program within these guidelines.

Each baccalaureate student who entered Cal State L.A. Fall 1998 or later and who is subject to requirements in the 1998–1999 or any later catalog shall complete the general education program described below. Students who entered Cal State L.A. in Summer 1987 or after must complete the program with a minimum C (2.0) average and a minimum C grade in all basic subjects courses.

It is essential that students plan their general education programs with the help of an academic adviser. Please consult the current Schedule of Classes for specific information about distribution requirements, unit requirements, and current general education courses. General requirements include a minimum of 72 quarter units to be selected in accordance with the specified distributions among the designated categories. At least 12 units of upper division course work must be included and selected from the list of approved upper division theme courses. Courses used to meet upper division general education requirements may not be used to meet requirements for a major. All students must complete a minimum of 12 quarter units of general education courses in residence at Cal State L.A.

Departments and divisions that require of their majors specific courses that are certified by the offering department or division as at least equivalent to the general education courses in a given subject may permit approved G.E. replacements courses. Students should consult a department/division adviser or school-based advisement centers for the approved list of G.E. replacement courses.

Certification of General Education

Under the provisions that govern general education within the CSU, regionally accredited, participating colleges and universities may certify the completion of a portion of the 48 semester (72 quarter) units required in general education. Cal State L.A. will accept up to 39 semester (60 quarter) units of course work certified by another authorized institution. However, such acceptance is limited to the number of units required in each area and to a maximum of 30 semester (45 quarter) units in Areas B through D. Course work completed by students whose general education requirements are not certified by the transfer institution is evaluated in terms of Cal State L.A.’s current general education requirements.

Students are cautioned that certification is not automatic; each student must request it. In addition, all participating colleges and universities have their own policies governing certification. Students are strongly advised to read their

college or university catalog carefully and to consult a counselor for details about individual regulations and restrictions.

Students who transfer to Cal State L.A. who were certified as having completed the lower division general education requirements under previous requirements but who have not maintained continuous attendance must complete Cal State L.A.’s upper division general education requirements.

Philosophy and Goals of the General Education Program

The General Education program enriches the lives of students as they acquire knowledge, learn to think critically, and use methodologies of the various disciplines. Students also learn to prepare for participation in a democracy, to appreciate a sense of shared cultural heritage, and to understand the environment. Students experience self-discovery and personal growth and recognize them as lifelong processes.

General Education Mission Statement

General education is a critical component of students’ academic and personal development. The General Education program endeavors to develop the following three separate, but related and equally important, qualities in our students:

1. A knowledge and understanding of themselves, their social and natural environment and a wide range of cultural achievements.

General education courses provide students with an opportunity to acquire knowledge about their own bodies and minds and about humankind’s common heritage and cultural achievements. The General Education program also enables students to develop global perspectives; to develop common commitments and mutual respect among diverse social, cultural and ethnic groups; to establish an understanding of the biological and physical aspects of the world and the universe; and to nurture an understanding of environmental responsibilities.

2. A firm command of communication and analytical skills.

The General Education program develops the ability of students to think clearly and logically, to find and examine information, to communicate effectively in oral and written form, and to perform quantitative analysis. The General Education program also cultivates the students’ ability to reason critically, to solve problems creatively and to understand the major methods of intellectual inquiry.

3. A moral commitment to their fellow human beings and an awareness of ethical and social concerns.

The General Education program emphasizes the interdependence of individuals with the human community and the natural world by focusing on the knowledge, experiences, relationships, and ethical concerns common to all people. In affirming the community’s claim on its individual members, general education courses explore shared and diverse cultural heritages and an agenda of common and pressing contemporary problems, cultivate mutual responsibilities to the commonwealth, and stimulate commitments to moral values and ethical behavior. Consistent with the mission of the University, the purposes of

general education are to provide a knowledge and understanding of common problems, experiences and traditions that will enhance students' participation in a culturally diverse global society, and to provide an assessment of finite resources, mutual human needs and values.

The Goals of the General Education Program

General education at Cal State L.A. is devoted to a number of basic goals, which include:

1. Developing awareness of the sense of community and global interdependence of human experience and of the concomitant ethical responsibilities to fellow human beings.

The General Education program is designed to help students achieve a sense of the essential relationship of self to the community and environment with emphasis on their responsibilities to human society. Group and individualized experiences that encourage ethical behavior should be a part of the general education program.

2. Fostering intellectual curiosity and an appreciation of the major discoveries and achievements in the arts, letters, natural and social sciences, technology, and other major academic disciplines.

The General Education program is designed to stimulate curiosity for knowledge and excitement for lifelong learning. The nature of the courses and experiences in the program are planned to encourage students' interest in diverse aspects of education. The faculty is committed to offering students unique classroom opportunities and to challenging them to continue to study and learn long after course requirements are met. The General Education program includes an historical awareness of the major developments in the human experience as well as a contemporary awareness of the applications of new technologies which will play an increasingly important role in life.

3. Achieving competence in basic skills.

The General Education program is designed to ensure that students master basic communication, critical thinking and quantitative skills so that they may achieve academic excellence. In meeting this goal, the General Education program pays special attention to the multicultural nature of the Cal State L.A. campus community and to the needs of students who are limited in English language proficiency. Language development instruction is an integral part of general education at Cal State L.A. The General Education program at Cal State L.A. places an emphasis on developing competence in the English language through its curriculum.

4. Recognizing and appreciating the multicultural nature of human existence in general and of American society in particular.

The General Education program is designed to encourage students to develop appreciation for the multicultural dimensions of life in California, the nation, and the world.

Uniquely on this campus, faculty draw upon the special expertise and the abundance of multicultural experiences of the student population in cultivating this cultural awareness. The General Education program offers students the opportunity to recognize the rich heritage and socially diverse environment of California and of the nation. The program also enables students to become aware of universal experiences that are part of all cultures as well as the varieties of value systems that are in operation in today's global society.

5. Developing an appreciation of a shared and diverse cultural heritage and cultivating an awareness of contemporary world and its problems.

The General Education program provides for its diverse student body a familiarity with and a critical appraisal of American culture and its historical roots and antecedents. Students assess critically the impact and influence of American tradition, which includes the political, economic, social and communication systems, as well as the artistic and literary heritage, on the contemporary world.

The Structure of the General Education Program

The general education breadth requirements are structured so that introductory courses are taken prior to participation in integrative experiences. Students are expected to complete the general education requirements in written and oral communication, critical thinking, and mathematics, and general education prerequisite courses before enrolling in any upper division general education theme course. All courses approved for general education credit, including those lower division courses that also earn credit toward a major, are mandated to require the practice of writing in English including, where appropriate, library assignments. Evaluation of writing is included in all courses.

All baccalaureate students who enter Cal State L.A. Fall Quarter 1998 or later and who are subject to 1998-99 or later requirements shall complete the General Education program described below, in consultation with a faculty adviser. The requirements include a minimum of 60 lower division units and 12 upper division units, selected from approved themes, for a total of 72 units. In addition, at least 12 of the total 72 units must be earned at Cal State L.A. Students must complete two diversity courses which may be completed at either the lower or upper division level of the General Education program. Students are urged to consult an academic adviser in their major department/division or school-based advisement center in selecting general education courses. All students who are subject to the requirements of the 1987-89 or later catalog must earn a C average in their General Education program and minimum C grades (2.0 G.P.A.) in all Block A (basic subjects) courses. **A grade of "C-" is not acceptable. All basic subjects must be completed within the first 45 units counted toward the baccalaureate degree.**

Configuration Of “Blocks” Of G. E. Courses

A. BASIC SUBJECTS (16 units) One course from each area.

- | | |
|-------------------------------------|--------------------------------|
| 1. Written Communication* (4 units) | 3. Critical Thinking (4 units) |
| 2. Oral Communication (4 units) | 4. Mathematics (4 units) |

A minimum C grade (2.0 GPA) in all basic subjects courses is required of all students who are subject to requirements of the 1987-89 catalog or later.

AMERICAN INSTITUTIONS (Minimum of 8 units)

U.S. History U.S. Constitution State/Local Government

All three areas must be met: POLS 150 meets both U.S. Constitution and State/Local Government.

B. NATURAL SCIENCES: 8 or 12 units from 2 or 3 areas, based on the classification of the student's major as listed below. A Biological and a Physical Science course with lab are required of all students. The third required course may be an integrated or an applied Natural Science course.

- | | | |
|--|--|--|
| 1. Biological Science with lab (4 units) | 3. Integrated/Applied Natural Science course (4 units) | |
| 2. Physical Science with lab (4 units) | | |

C. HUMANITIES: 8 or 12 units from 2 or 3 areas, based on the classification of the student's major as listed below. Students must take either 8 units from 2 different areas or 12 units from 3 different areas. An integrated Humanities course may count as one of the area requirements.

- | | | |
|-------------------------|-------------------------------------|---------------------------------|
| 1. Literature and Drama | 3. Philosophy and Religious Studies | 5. Integrated Humanities course |
| 2. Arts | 4. Languages Other than English | |

D. SOCIAL SCIENCES: 8 or 12 units from 2 or 3 disciplines, based on the classification of the student's major as listed below. Students must take either 8 units from 2 different disciplines or 12 units from 3 different disciplines. An integrated Social Science course may count as one of the required courses.

E. LIFELONG UNDERSTANDING AND SELF-DEVELOPMENT (4 units)

F. UPPER DIVISION THEME (12 units)

Students must complete one course in each of the three disciplines (Natural Sciences and Mathematics, Social Sciences, and Humanities) as required in a theme. Completion of basic subjects requirements (block A) and at least one course each from blocks B, C, and D are prerequisites to all upper division theme courses.

G. DIVERSITY REQUIREMENT (2 courses)

Students must complete two courses certified as diversity courses. These courses may be completed at either the lower division or upper division level from among courses satisfying general education requirements in blocks B, C, D, E, and F.

**All students who entered Cal State L.A. Summer 1993 or later and who are subject to requirements in the 1993-95 or any later catalog are required to have two courses (8 units) of Written Communication; however, only the first of the two courses (4 units) is applied to General Education. Both courses must be completed with a C or higher grade.*

Summary of the Configuration of General Education Units

Configuration of Units								
A		B	C	D	E		F	
Basic Subjects	American Institutions	Natural Sciences	Humanities	Social Sciences	Lifelong Understanding & Self-Devel	Lower Division Total	Upper Division Themes	General Education Total
16	8	8 or 12	8 or 12	8 or 12	4	60	12	72

General Education Lower Division Courses

Effective: Fall Quarter, 1998

A Basic Subjects	American Institution	B Natural Sciences	C Humanities	D Social Sciences	E Lifelong Understanding and Self-Development
UNITS: 16	8	8 or 12	8 or 12	8 or 12	4
<p>§ <u>A1 WRITTEN COMM</u> ENGL 101</p> <p>§ <u>A2 ORAL COMM</u> SPCH 150</p> <p>§ <u>A3 CRITICAL THINKING</u></p> <p>PHIL 160,250 POLS 155 SPCH 176</p> <p><u>A4 MATH</u> § MATH 100,102</p> <p><i>5 minimum C grade in these classes is required. A 'C-' grade is not acceptable.</i></p>	<p><u>U.S. HISTORY</u> HIST 202A or 202B</p> <p><u>U.S. CONSTITUTION</u> †POLS 150</p> <p><u>STATE/LOCAL GOV'T</u> †POLS 150 or 200</p> <p>† POLS 250 meets both areas</p>	<p><u>B1 BIOLOGICAL</u> <i>(with lab)</i> BIOL 155,156 MICR 151</p> <p><u>B2 PHYSICAL</u> <i>(with lab)</i> ASTR 151 with 152 CHEM 158 with 159 GEOG 170 with 171 GEOL 150,155 PHYS 156</p> <p><u>B3 APPLIED NATURAL</u> ANTH 260 ASTR 160 BIOL 151 BIOL 165 CE 220 GEOG 160 GEOL 158 PSCI 185</p> <p><u>B3 INTEGRATED NATURAL</u> BIOL/PHYS 157</p>	<p><u>C1 LITERATURE AND DRAMA</u> ANTH/ENGL 245 ENGL 250,258,260,270,280 SPAN 242 TA 152</p> <p><u>C2 ARTS</u> ART 101ABC, 150,152,155, 156,157,159,209 BCST/DANC/TA 210 BCST/ENGL 225 CHS 112 DANC 157 (d) LBS 234 MUS 150,160</p> <p><u>C3 PHILOSOPHY AND RELIGIOUS STUDIES</u> PHIL 151,152 (d) PHIL/RELS 200 (d) PHIL 220</p> <p><u>C4 LANGUAGES OTHER THAN ENGLISH</u> COMD 150 CHIN 100ABC, 101ABC, 200ABC, 201ABC FREN 100ABC, 130, 200AB GERM 100ABC, 200ABC ITAL 100ABC, 200ABC JAPN 100ABC, 130, 200ABC, 230 KOR 100ABC LATN 100ABC, 222 PORT 100ABC RUSS 101AB SPAN 100ABC, 105,130, 200ABC, 205ABC, 230</p>	<p>(d)AAPS 200 (d)ANTH 250 (d)BCST 250 (d)BUS 250 CHDV 140 (d)CHS 111 or (d)CHS/LAS 255 ECON 150 ANTH/ENGL 230 (d)GEOG 155 HIST 110ABC (d)HIST 150 or (d)SOC 263 PAS 250AB POLS 250 PSY 150 SOC 201 (d)SOCs 180 URBA 180 (d)WOMN 203</p> <p><u>INTEGRATED SOCIAL SCIENCES</u> LAS 150 SOCS 230 (d)Approved diversify courses</p> <p><u>C-5 INTEGRATED HUMANITIES</u> BCST/ENGL/TA 240 ENGL/PHIL 210 (d)Approved diversity courses</p>	<p>ANTH 265 (d)ART 240 BUS 200 (d)CHDV/SOC 120 HS 150 PE 150 PHIL 230 POLS 120 PSY 160 SPCH 230 SOC 202 TECH 250</p> <p>(d)Courses with the course number preceded by the designation (d) indicate those approved to meet the Z-course Block G - Diversity requirement.</p> <p>(See previous page for definitions of G.E. "Blocks.")</p>
<p>NOTES:</p> <ul style="list-style-type: none"> • A minimum C grade average in general education is required of all students following the 1987-1989 or any later catalog. • Other courses may be substituted in some categories in conjunction with a student's major. Consult a department or division adviser for a list of <i>double-counted</i> courses. • Students must complete two diversity courses which may be selected from blocks C, D, E or from GE upper division themes. • ENGL 102 is required of all students who entered Cal State L.A. Summer 1993 or later, and who are subject to the requirements of the 1993-95 or later GE catalog. A <i>minimum C grade is required. A 'C-' grade is not acceptable.</i> • Engineering majors' GE program differs. See an academic adviser in your major department. 					

G.E. Classification Of Majors

To Determine Specific General Education Requirements in Natural Science (Block B), Humanities (Block C) and Social Science (Block D)

Natural Science-based Majors. *

Students majoring in the following programs must take 8 units of natural science (physical and biological, each with lab), 12 units of humanities (integrated humanities course may count as one of the areas), and 12 units of social science (integrated social science course may count as one of the areas). Students majoring in biological science-based fields must take one physical science general education course and one other natural science G.E. course. Students majoring in physical science-based fields must take one biological science-based general education course and one other natural science G.E. course.

Biochemistry (B.S.)	Geology (B.S.)	Nutritional Science (B.S.)
Biology (B.S.)	Health Science (B.S.)	Physical Education (B.S.)
Chemistry (B.A., B.S.)	Mathematics (B.A., B.S.)	Physical Science (B.S.)
Computer Science (B.S.)	Microbiology (B.S.)	Physics (B.A., B.S.)
Engineering (B.S.)**	Nursing (B.S.)	

Humanities-based Majors.

Students majoring in the following programs must take 12 units of natural science, 4 units of which may be an integrated or applied natural science course, 8 units of humanities, and 12 units of social sciences. Students majoring in humanities-based fields must take two humanities courses, one of which may be an integrated humanities course.

Art (B.A.)	Japanese (B.A.)	Radio/TV Broadcasting (B.A.)
English (B.A.)	Liberal Studies (B.A.)	Spanish (B.A.)
French (B.A.)	Music (BMus, B.A.)	Speech Communication (B.A.)
Industrial Arts (B.A.)	Philosophy (B.A.)	Theatre Arts (B.A.)

Social Science-based Majors.

Students majoring in the following programs must take 12 units of natural science, 4 units of which may be an integrated or applied natural science course, 12 units of humanities (integrated humanities course may count as one of the areas), and 8 units of social sciences. Students majoring in social science-based fields must take two social science general education courses, one of which may be an integrated social science course.

Afro-American Studies (B.A.)	Economics (B.A.)	Political Science (B.A.)
Anthropology (B.A.)	Fire Protection Administration and Technology (B.S.)	Psychology (B.A.)
Business Administration (B.S.)	Geography (B.A.)	Rehabilitation Services (B.S.)
Business Education (B.S.)	History (B.A.)	Social Science (B.A.)
Child Development (B.A.)	Industrial Technology (B.S.)	Social Work (B.A.)
Communicative Disorders (B.A.)	Latin American Studies (B.A.)	Sociology (B.A.)
Computer Information Systems (B.S.)	Mexican-American Studies (B.A.)	Vocational Arts (B.V.E.)
Criminal Justice (B.S.)		

* Students should choose general education courses in consultation with an academic adviser in their major department or division. This is **particularly important for science majors** whose General Education natural science requirements will differ from the courses listed in the general education program.

** GE program for Engineering majors is available in the School of Engineering and Technology. See a faculty adviser for details.

G.E. Upper Division Themes (Block F)

Students are required to complete a 12-unit upper division theme as part of the General Education program. A theme consists of three interrelated courses on the same topic, designed to help students acquire knowledge of topics that are current, enduring, and of significant importance for humanity. Topics are designed to promote: an understanding of oneself and one's fellow human beings, the social and physical environment, and a wide range of cultural achievements; an understanding of the shared concerns of all people as well as diverse cultural heritages; and an awareness of ethical and social concerns and a cultivation of moral responsibility.

Courses in each theme are distributed among three areas including: Natural Sciences and Mathematics, Social Sciences and Humanities. Students are thereby provided with the perspectives of at least three different disciplines on the theme's topic and must select one course from each area for the theme selected. Completion of the lower division basic subjects requirement is prerequisite to all upper division theme courses, as well as completion of any additional lower division general education course that may be required as a prerequisite. Courses used to meet upper division general education requirements may not be used for a major. Additionally, students must choose theme courses outside of their major department unless approved for this purpose by the General Education Subcommittee.

Students may meet the general education diversity requirement (2 courses) by completing courses designated as diversity courses at the lower or upper division level from among courses satisfying general education requirements. All courses approved to meet the diversity requirement are designated as (d) by each course.

Students who have completed the upper division theme are deemed to be "G.E. satisfied" at the upper division level. Students will not be held to further upper division G.E. course requirements upon a change of major.

Students may choose from the following themes, in consultation with an adviser.

NOTE: Courses with the course number preceded by the designation (d) indicate those approved to meet the 2-course Block G – Diversity requirement.

A. Challenge of Change in the Developing World

This theme explores the dilemmas faced by the peoples of Africa, Asia, the Middle East and Latin America as they struggle to overcome legacies of colonialism and economic dependence. The developing countries are characterized by severe social and cultural tensions, physical complexities and challenges to themselves and the rest of the world. Their current integration into the global economy marks a crucial stage in world history. The natural science courses assess their physical settings, constraints and possibilities; the social science courses analyze social, political and economic processes of change; the humanities component examines the dynamic interplay among the arts, religion and cultural values.

Natural Sciences and Mathematics

- BIOL 326N Agroecology in the Developing World (4)
- GEOG 333 Environment and Development in the Third World (4)
- GEOL 351 Environmental Geology of Developing Nations (4)

Social Sciences

- ECON 360 Developing Countries and the New Global Economy (4)
- HIST 360 Revolution and Society in Developing Countries (4)
- LAS/PAS/POLS 380 Dynamics of Change in the Developing World (4)
- EDFN/LAS/PAS 380 Education and Development in the Third World (4)

Humanities

- BCST 324 Third Cinema/Video (4)
- (d) ENGL/PAS 386 Literature and the Third World (4)
- (d) LAS/PAS 342 Cultural Impact of Development (4)
- PHIL 334 Post-Colonial Values and Modernization in the Developing World (4)

B. Perspectives On Violence

The Perspectives on Violence theme utilizes a multidisciplinary approach that provides comprehensive investigations, discussions, and the debate about theories, research and conflict/violence reduction strategies relevant to the causes and effects of violent behavior. The theme is structured to increase students' understanding of the nature, causes and complexities of violence in its myriad forms, including the study of how, when, and why it occurs as well as what can be done to reduce it.

Natural Sciences and Mathematics

- ANTH 315 Evolutionary Perspectives on Violence (4)
- HS/NURS 308 Psychophysiology of Substance Abuse and Violence (4)
- NURS/PSY 307 Physiology and Psychology of Violence and Aggression (4)

Social Sciences

- HIST/POLS 351 Beyond Conflict, Violence and War (4)
- NURS/SW 355 Strategies for Preventing and Intervening in Family Violence and Abuse (4)
- COMD/PSY 309 Human Violence and Individual Change (4)
- SOC 383 Violence in American Society (4)

Humanities

- BCST 366 Violence and the Media (4)
- ENGL 382 Violence and Literature (4)
- PHIL 325 Violence and Ethics (4)
- TA 314 Staging Violence in World Theatre (4)

C. Gender in the Diversity of Human Experience

This theme provides an integrated inquiry into the implication of gender, exploring its meaning, significance, and status within the diversity of human experience and representations of sex and gender specific to the multitude of cultures and societies making up the human experience, both historically and today.

Natural Sciences and Mathematics

- BIOL 388N/PSY 388 Sex and Gender (4)
- ANTH 310 Evolutionary Perspectives on Gender (4)
- NURS 330 Human Reproductive Health (4)

Social Sciences

- (d) SOC 341 Sociology of Gender Roles (4)
- (d) ANTH 338 Gender Roles in Cross-cultural Perspectives (4)
- (d) HIST 357 Gender in History (4)
- (d) POLS 310 Gender, Politics, and Government (4)

Humanities

- (d) PHIL 327 Philosophy, Gender and Culture (4)
- (d) ENGL/SPCH 385 Sex and Gender in Language and Literature (4)
- (d) ENGL/BCST 379 Gender and Sexuality in Popular Culture (4)
- (d) RELS 335 Gender in the Diversity of World Religions (4)

D. Urban Life and Environment

This theme contributes to an understanding of urbanization, its causes and consequences, and the urban experience from a variety of points of view. Courses explore the city as a special kind of human habitat and the relations between social and natural environments. Students gain the tools to comprehend the social, political, economic and cultural complexities of cities and the human and natural forces that shape urban life, experiences and environments.

Natural Sciences and Mathematics

- CE 352 Technological Aspects of the Urban Environment (4)
- GEOG 310 Urban Climatology (4)
- GEOL 357 Urban Geology (4)

Social Sciences

- (d) CHDV 321 Urban Families: Contemporary Issues (4)
- GEOG 376 Urban Spatial Processes and Patterns (4)
- HIST 383 Rise of Urban America (4)
- SOC 330 Social Issues in the Urban Setting (4)

Humanities

- ART 317 Visual Arts in Urban Contexts (4)
- ML 300 Language Diversity in Urban America (4)
- (d) SPCH 389 Intercultural Communication in the Urban Environment (4)
- TAD 316 Theatre and Dance in the 20th Century Urban Contexts (4)

E. The Diversity of Human Emotions

The Diversity of Human Emotions theme uses emotion as a window into cultures, because emotional diversity reflects the diversity of humankind. As a biological process that is shaped into varieties by culture, emotion is an ideal topic for gaining insights into the social lives of ethnic groups, the genders, and the social classes. The theme emphasizes these dimensions of diversity and portrays not only cultural diversity, but also teaches techniques for control over prejudice, suspicion, antagonism and other emotional states creating conflict among social groups.

Natural Sciences and Mathematics

- ANTH 300 Evolutionary Perspectives on Emotions (4)
- PSY 323 Psychology of Emotion (4)

Social Sciences

- (d) HIST 356 History of Emotions (4)
- (d) SOC 300 Cultural Emotion (4)
- (d) RELS 380 Emotion in Religion (4)

Humanities

- (d) CHS/ENGL/PAS 327 Ethnicity and Emotions in U.S. Film (4)
- PHIL 372 Philosophy and the Emotions (4)
- TA/BCST 380 Emotion in Theatre and Film (4)
- ENGL/ML389 Human Emotions in Literary Expression (4)

F. Human Maturity and Aging Processes and Problems

This theme addresses major life issues that confront individuals in maturity and adulthood. It provides a multidisciplinary approach to the study of human aging through examination of the biological bases of aging, the cultural, social, political and psychological implications of maturity and aging, and the religious, literary and philosophical concepts of age and aging.

Natural Sciences and Mathematics

- ANTH 325 The Anthropology of Aging: A Bio-Physiological Approach (4)
- BIOL 384NBiology of Human Aging (4)
- NTRS 351 Adult Nutrition (4)
- PE 363 Physiological Effects of Exercise During Aging (4)

Social Sciences

- (d) ANTH 335 Maturity and Aging in Cross-cultural Perspectives (4)
- POLS 330 Politics of Aging (4)
- PSY 362 Psychological and Psychosocial Developmental Stages in Maturity and Aging (4)
- SOC 323 Socialization: Maturity and Aging (4)

Humanities

- ENGL 383 Narratives of Maturity and Aging (4)
- ML 382 Maturity and Aging in East Asia and Romance Literatures (4)
- (d) PHIL 373 Themes of Adult Life in Philosophy (4)
- (d) RELS 325 Themes of Adult Life in the World's Religions (4)

G. The Global Environment: Past, Present, and Future

This theme explores how the global environment and its resource have evolved, how the environment works and how humans precipitate, exacerbate, and are affected by global change. The future of humanity within a sustainable world society is addressed. The theme emphasizes the moral responsibilities of individuals in solving environment problems. The interconnectedness of the natural and social sciences and the humanities is stressed in an attempt to understand ourselves and our need to learn from and work with the global environment rather than to conquer it.

Natural Sciences and Mathematics

- BIOL 355N/CHEM355N/GEOL 355
Scientific Perspectives on Global Change (4)
BIOL 341N/GEOL 341 Evolution of Earth and Life
through Time (4)
CE/GEOL 358 Environment, Earth Systems and
Technology (4)

Social Sciences

- HIST/POLS 358 Environmental Policy and Politics (4)
GEOG/POLS 322 Global Change and the Human
Condition (4)
GEOG 341 World Resources and Environmental
Issues (4)
SPCH 372 Media, Communication and the
Environment (4)

Humanities

- PHIL 331 Environmental Ethics (4)
ENGL 388 Environment and Literature (4)
ART 315 The Arts and the Environment (4)

H. Race, Diversity, And Justice

“Race, Diversity and Justice” is a theme that integrates the investigation of contemporary issues of racism and social injustice with the goal of understanding what attitudes and behaviors prevent treatment for all peoples. This theme presents the conceptual and historical background necessary for responsible and moral judgement, subsequent action, and the embracement of cultural diversity in a world that is composed of many cultures and societies.

Natural Sciences and Mathematics

- ANTH 361 Race, Racism, and Human Variation
ANTH/PHIL 385 Measurement of Human Difference (4)
HS 370 Environmental Racism (4)

Social Sciences

- (d) HIST 352 Civil Rights in the United States (4)
(d) POLS/SPCH 342 Rights and Justice in Communication
and Politics (4)
(d) SOC 348 Class, Race/Ethnicity and Gender (4)
(d) SW 362 From Institutional Racism to Cultural
Competency (4)

Humanities

- (d) BCST 334 “Race,” Justice and Mass Media (4)
(d) ENGL/PAS 377 Literary Explorations of Justice and
Racism (4)
(d) LAS 335 Race and Culture in the Americas (4)
(d) PHIL 323 Human Diversity and Justice (4)

I. Ancients And Moderns

The Ancients and Moderns theme provides an integrated introduction to the interaction of the principal civilizations of the Mediterranean basin—Mesopotamia, Egypt, Greece, and Rome—to form the “Classical Tradition” and the significance of that tradition for the understanding of Western and Islamic Civilization in general and the culture of the Americas in particular. Comparisons will be made with East Asian Civilization.

Natural Sciences and Mathematics

- CHEM 380N/HIST/PHIL 380 Ancient and Modern
Science (4)
ENGR/TECH 383 Ancient and Modern Technology (4)
ASTR 360 Ancient and Modern View of the
Universe (4)

Social Sciences

- ANTH 355 Cultural Evolution and Ancient
Civilizations (4)
HIST 311 Classical Civilization and the Modern
World (4)

Humanities

- AAPS 350 Ancient East Asian Literature and the
Modern World (4)
CHS/ML 312 Mediterranean and Pre-Columbian Myths
in Latin American Literature (4)
ENGL 381 Legacy of Greek and Roman
Literature (4)
PHIL 321 Ancient Thought and its Modern
Legacy (4)

Teaching Credentials:

Basic Information on Undergraduate Preparation

Basic Teaching Credentials

For students interested in obtaining either the Single Subject or the CLAD/BCLAD Multiple Subject credential, appropriate degree programs are listed below. Each program (or a specific option within it) has been approved by the Commission on Teacher Credentialing for waiver of the subject area examination for the credential indicated. Interested students should consult advisers in both the appropriate academic department and the Charter School of Education.

Multiple Subject

CLAD/BCLAD Credential

The Charter School of Education has a long and successful history of preparing teachers for the challenges of California's urban classrooms. It is recognized by both the **California Commission on Teacher Credentialing (CCTC)** and the **National Council for the Accreditation of Teacher Education (NCATE)** for its exemplary programs. Although newly enacted laws and policies may bring about regulatory changes in credential requirements, the need for bilingual teachers will continue to exist in California due to its large and growing multilingual/multicultural student population. According to CCTC, school districts will continue to hire as

many bilingual teachers as they can find. The Charter School of Education was among the first to gain approval of its **Crosscultural, Language and Academic Development (CLAD)** and **Bilingual Crosscultural, Language and Academic Development (BCLAD)** credentials and will continue to be a leader in the area of education for diverse students. All credential students are strongly encouraged to enter a CLAD program in preparation for the teaching of English language learners. Students who are bilingual in Spanish or an Asian language are encouraged to enter a BCLAD program.

All Cal State L.A. students who enter a Multiple Subject CLAD/BCLAD teaching credential program must complete a 106–111 unit common core as well as general education, major, and other graduation and credential requirements. A grid that contains the common core appears later in this chapter. Some core courses also meet lower division general education requirements. (Refer to Lower Division General Education grid elsewhere in this chapter.) Consult a faculty adviser in your major department for further information.

The Multiple Subject CLAD/BCLAD teaching credential is offered with the following undergraduate degrees:

- Afro-American Studies, B.A.
- Child Development, B.A., Option II
- Geography, B.A.
- History, B.A.
- Latin-American Studies, B.A.
- Liberal Studies, B.A.
- Mexican-American Studies, B.A.
- Philosophy, B.A.
- Physical Education, B.S.

The Multiple Subject credential is available with a bilingual emphasis in Spanish through the BCLAD track. Internship credential options are also available for the Multiple Subject CLAD/BCLAD credentials.

Single Subject Credential

Candidates applying for the Single Subject teaching credential after August 31, 1995, who have not completed an approved academic program of course work or its equivalent, and have not met the previous examination requirement, must take and pass a new set of examinations for the Single Subject credential in seven subject matter areas. New examination requirements will become effective in other subject matter areas as these are made available. Candidates need to seek information about current requirements in the Office of Student Services, Charter School of Education, KH D2078.

Candidates for the California Single Subject teaching credential must verify competence in their teaching field by one of the following methods:

1. completing an approved academic program of course work (or its equivalent) in the selected subject-matter area, or
2. passing the required examination(s) for the subject matter area in which the credential is sought.

An internship credential option is available for the Single Subject credential.

Single Subject Credential

Authorized Areas	Degree Program
Art	Art, B.A.
English	English, B.A.
English	Speech Communication, B.A.
Foreign Language	French, B.A.
Foreign Language	Japanese, B.A.
Foreign Language	Spanish, B.A.
Health Science.....	Health Science, B.S.
Industrial and Technology Education	Industrial Arts, B.A.
Industrial and Technology Education	Industrial Technology, B.S.
Mathematics	Mathematics, B.A., B.S.
Music.....	Music, B.A.
Physical Education.....	Physical Education, B.S.
Science.....	Natural Science, B.S.
Social Science	Social Science, B.A.

Supplementary Authorizations

The holder of a multiple subject **or** a single subject teaching credential issued by the California Commission on Teacher Credentialing may have one or more of the subjects commonly taught in departmentalized classes added to the credential as a supplementary authorization by verifying completion of the requirements specified in Title 5, California Code of Regulations, 80057.5, or 80089, 80089.1, and 80089.2. Supplementary authorizations cannot be issued in any subject that falls within the statutory single subject category of an applicant's single subject teaching credential.

A partial listing of supplementary authorizations and the credentials to which they apply are listed below. Recommended courses for these are included in department listings later in the catalog. Interested students should consult an adviser in the specific department about other appropriate course work. Contact the Office of Student Services in the Charter School of Education (KH D2078) for information concerning the specific requirements for subjects approved for supplementary authorization and the procedure to apply to the Commission.

Supplementary

Authorized Areas	Type of Credential Required
Introductory Mathematics	Single Subject
Mathematics	Multiple Subject
Biological Sciences	Single Subject
Chemistry	Single Subject
Comparative Political Systems and International Relations.....	Single Subject
Geosciences	Single Subject
Geography.....	Single Subject
Physics.....	Single Subject
U.S. Government and Civics.....	Single Subject

Information about other supplementary authorizations is available in the Charter School of Education. Information about additional credential programs appears in the **Graduate and Postbaccalaureate Study: General Information** chapter.

Multiple Subject Matter Program Requirements

Effective: Fall Quarter 1998

Core Requirements (106-112 units)

AREA:	1	2	3	4	5	6
	Languages	Literature	Visual and Performing Arts	Mathematics	Natural Sciences	Human Development
UNITS:	16	8	16	11	12 or 13	8 or 12
	*ENGL 101 ENGL 1020 *SPCH 150 †*Four units in a foreign language UNIV 400 (WPE)	*ENGL 250 <i>One of the following:</i> EDEL 473 ENGL 430 SPCH 490	ART 400 DANC 400 MUS 400 <i>One of the following:</i> *ART 101A, 101B, 101C *DANC 157 *MUS 150,160 *TA 152	CS 160 MATH *100, 120	<i>Block 1 Life Sciences (with lab)</i> *BIOL 155 <i>Block 2 Physical Sciences (with lab)</i> *ASTR 151 with 152 or *CHEM 158 with 159 or *GEOL 150 or *GEOL 155 or *PHYS 156 <i>Block 3 Applied/Integrated Natural Sciences</i> *GEOG/GEOL 101 or *PSCI 180 or *BIOL/PHYS 157	*PSY 150 † <i>One or two of following:</i> CHDV 420 **PSY 412AB SOC 322A † <i>must include both child and adolescent psychology</i> ** <i>Students who take PSY 412AB may reduce the electives requirement from 28 to 24 units.</i>

* this course also fulfills a lower division GE requirement

† CLAD credential requires equivalent of 9 units of foreign language coursework @formerly ENGL 308 or 410 (Effective Summer Quarter 1994)

AREA:	7	8	9	10	11
	Physical Education	History	Humanities	Social Sciences	Ethnic, Culture, and Gender Studies
UNITS:	7	8	4	8	8
	*PE 150 PE 420	*HIST 110A *HIST 202A	*PHIL 160 or 250 or *POLS 155 or *SPCH 176	*GEOG 155 *POLS 150	<i>Any two of the following:</i> *ANTH 250 CHDV 425 CHS 444,470 DANC 477 HIST 480,486 *LAS 150 MUS 458 PAS 251A, 251B, 400 SOC *263 or HIST 150, SOC 435,441 SPCH 479,489 TA 160

* this course also fulfills a lower division GE requirement

Other Program Requirements (80 units)

- **Major (20 units)**

Approved Multiple Subject Matter program majors are listed below.

- **Afro-American Studies**
- **Child Development**
- **Earth Sciences**
- **Geography**
- **History**
- **Latin American Studies**
- **Liberal Studies**
- **Mexican-American Studies**
- **Philosophy**
- **Physical Education**

NOTE: All students who enter a major approved for the Multiple Subject Matter program beginning Fall Quarter 1991 must complete the core courses listed above, in addition to other requirements in their major.

- **Depth (20 units)**

All students must consult a major adviser to select an appropriate depth area of study.

- **Electives (28 units)**

Professional education courses recommended. See a credential adviser in the School of Education.

- **Upper Division GE Theme (22 units)**

Select one upper division theme and complete a course in each of the three required areas.

Academic Support Programs

Health Science Advisement Office (HSAO)

In general, students planning to enter a school of dentistry, medicine, optometry, pharmacy, podiatry, or veterinary medicine should elect a major related to their own interests and include appropriate science courses as part of their major, general education, or electives. Medical schools expect students to show proficiency in English, mathematical reasoning, and fundamentals of physical and biological sciences. Some medical schools also require work in the social sciences, humanities, and a foreign language. Most expect completion of a baccalaureate program.

The advisory staff serving preprofessional students in medical and related health fields includes two appointed health science advisers and a supporting group of faculty members in the departments of Biology and Microbiology, Chemistry and Biochemistry, Physics and Astronomy, and Psychology. Medical sciences advisement and recommendations are coordinated through the Health Science Advisement Office (HSAO) in Biological Sciences 202, (323) 343-2070. Students planning careers in these areas should visit the office for guidance about programs and application procedures, irrespective of their declared major. The staff has prepared a number of brochures that answer most of the students' initial questions about the various health science careers. The center also contains current catalogs for every health science professional school in the United States as well as information about foreign schools, financial aid, and alternative careers.

Health Careers

Opportunity Program (HCOP)

Since 1984, the HSAO has also administered a federally-funded Health Careers Opportunity Program (HCOP). This program is designed to increase the number of minority and disadvantaged Cal State L.A. students accepted into health professional schools. Under the direction of two campus health science advisers and a full-time administrator, the program offers students a variety of enrichment courses, video mock interviews, MCAT/DAT preparation, seminar series, and application counseling, among other benefits. This assistance has enhanced their success in gaining admission to their chosen health professional programs as judged by the most recent national admission statistics.

Minority Access to

Energy Research Careers (MAERC)

MAERC is designed to increase the number of underrepresented minority scientists and engineers in energy research. Funded by the U.S. Department of Energy, the program provides monthly stipends for six junior and six senior-level student fellows to do research under the direction of a Cal State L.A. faculty member. In the summers, the student fellows receive full funding while working in one of the following U.S. Department of Energy laboratories: Idaho Falls National Energy Laboratory, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, Solar Energy Research Institute. For further information, call the Dean of the School of Natural and Social Sciences at (323) 343-2000.

Minority Access

to Research Careers (MARC)

The MARC Honors Undergraduate Research Training Program trains up to 10 academically accomplished (B or higher grade point average) natural and behavioral science juniors and

seniors who can compete successfully for entry into graduate programs leading to the Ph.D. in the biomedical sciences or an M.D.–Ph.D. degree.

Student fellows perform research under the direction of faculty who are engaged in biomedical research. A stipend is provided for each student fellow. In addition, the program provides payment of student registration fees, funds for research supplies, and a travel allowance for fellows to attend scientific meetings to present research papers. A participant's tenure in the program is two years for trainees entering as juniors and one year for those entering as seniors.

For further information about the MARC program and applications forms, write or phone Dr. Carlos G. Gutierrez, Director, MARC Program, Department of Chemistry and Biochemistry, (323) 343-2300.

Minority Biomedical

Research Support Program (MBRS)

Designed to increase the pool of underrepresented minority biomedical scientists, the MBRS provides annual salaries for undergraduate and graduate students to participate in original research projects in collaboration with experienced faculty mentors.

Students are also given excellent opportunities to obtain experience in contemporary and sophisticated biomedical research, a seminar series presented by distinguished scientists, and travel to national and regional scientific meetings. For further information, contact the MBRS office at (323) 343-2395.

Minority Engineering Program (MEP)

MEP's goal is to increase the number of engineering majors and graduates from underrepresented minority groups while improving these students' professional preparation. MEP services include scholarships, counseling, advising, registration assistance, a study center, study and academic support groups, preprofessional internships, career and professional development seminars, and opportunities for involvement in student organizations. MEP students learn to work cooperatively in a supportive environment. The program provides services to all African-American, Hispanic, and American Indian engineering majors. For further information, contact the MEP office, E&T A136, or call (323) 343-4527.

Minority Science Program (MSP)

The MSP aims to improve the chances for success of high-potential minority students by helping them improve their study habits and self-esteem and by providing a strong student-faculty support group. Students who register for introductory science and mathematics classes and are identified in the registration process as African-American, Mexican-American or other Hispanic, Filipino or other Pacific Islander are notified about the program, but all eligible students are invited to apply.

MSP students enroll in a science orientation course designed to help them develop a sense of community. Those who are enrolled in the same courses are assigned a student mentor who works with them as a tutor and counselor. Faculty who teach freshman mathematics and science courses present information to MSP students about their expectations of students enrolled in their courses. Faculty who direct research projects are invited to talk with MSP students about their research. Students also learn about required tests and

prerequisites, study and communicative skills, science and math careers, and computer usage in the sciences.

The Science and Math Study Center in Biological Sciences 220 is a gathering place for MSP students for individual or group study. Student mentors are available to help students with assigned problems. For further information, contact the program directors, Dr. Margaret Jefferson (Biology and Microbiology Department) or Dr. Raymond Garcia (Chemistry and Biochemistry Department), either department office, or the study center.

Partnership for Academic Learning and Success (PALS)

PALS is a faculty/student mentoring program designed to enhance the retention of first-time freshman students to meet educational, financial and other challenges associated with beginning college life. Freshmen are paired with peer mentors who are advanced students with similar majors and career interests and are responsible for assisting freshmen in meeting the challenges of the first year of college. PALS is a school-based retention program, and faculty coordinators from each of the schools and the Academic Advisement Center (for students

with undeclared majors) are actively involved in the program. Exciting academic programs and cultural and social activities are key elements of the PALS program. For further information, contact the PALS Office, Library, Palmer Wing 1040A, (323) 343-3184.

Free Summer Quarter Plus (FSQ+) Program

California State University, Los Angeles invites qualified undergraduates to apply to a special program which offers the opportunity to take a full complement of summer courses absolutely free through the **Free Summer Quarter Plus (FSQ+) Program**: all usual University fees are waived. Students who commit to take 48 units in a four quarter period can save time toward graduation and 25%– 33% of their annual college fees. Students enrolled in the **FSQ+ Program** will receive priority registration each quarter they are enrolled as an **FSQ+ Program participant**. Additionally, **FSQ+ participants** will have the opportunity to be involved in learning communities, and work with a specially trained **FSQ+ Faculty Advisor**. Students interested in the **FSQ+ Program** should refer the **Admissions** and to the **Procedures and Regulations** chapters of this catalog.

Preprofessional Study

Students who wish to prepare for professional study in engineering and the natural sciences, as well as the fields of law, librarianship, or medicine and health sciences will find specialized counseling and advisement at Cal State L.A. Such preprofessional advisement is separate from and in addition to major program advisement. Students are urged to consult current catalogs of professional schools available in the Reference Room of the Library for specific requirements, or to contact the advisement offices named below.

American Humanics, Inc.

Cal State L.A.'s American Humanics program, housed in the School of Health and Human Services, provides opportunities for students interested in human service organization careers to receive a specific, practical, educational experience related to their desired career goals. American Humanics, Inc. is a national program available at selected college and university campuses in the continental U.S. The intent of the program is to recruit, educate, and place qualified professional staff in nonprofit agencies. Cal State L.A.'s American Humanics program office is located in PE 237, phone (323) 343-580. Students interested in the program are advised to contact the program director. A certificate program and courses in Youth Agency Administration (YAA) are described in the School of **Health and Human Services** chapter.

Health-Related Programs

Cal State L.A. offers a wide range of programs in health and health-related fields. These programs have a strong clinical and field placement component at several leading health care facilities and clinics in the metropolitan area to prepare graduates to enter the health field as professionals. Additional information is available from the Coordinator of Health-Related Programs, Biological Sciences 125, (323) 343-2035. Programs and the departments and divisions that offer them include:

Program	Department or Division	Phone Area Code (323)
Art Therapy	Art	343-4010
Audiology	Communication Disorders	343-4690
Dietetics	Health and Nutritional Sciences	343-4740
Exercise Science	Kinesiology & Physical Education	343-4650
Health Care Management	Management	343-2895
Health and Nutritional Sciences	Health Science	343-4740
Microbiology	Biology and Microbiology	343-2050
Nursing	Nursing	343-4700
Nutrition	Health and Nutritional Sciences	343-4740
Physical Education for Exceptional Individuals	Kinesiology & Physical Education	343-4650
Preprofessional Program for Medicine,		
Dentistry, Optometry, Pharmacy, Podiatry and Veterinary Medicine	Health Science Advisement Office	343-2070
Rehabilitation Counseling	Administration and Counseling	343-4250
Social Work	Social Work	343-4680
Special Education	Special Education	343-4400
Speech-Language Pathology	Communication Disorders	343-4690

Law

Students considering a career in law may select from a broad range of majors. Law schools are interested in students' knowledge of human institutions and values and their critical thinking, analytical writing and communication skills. There is no preferred major or course of study at the baccalaureate level. The major should be chosen based upon the student's interest since a good academic record in a rigorous course of study is more important for admission to law school than the major. Students should be mindful that not everyone is accepted to an accredited law school. Thus, a consideration in selecting a major should be alternative career paths in the event that one is not admitted or changes career goals.

As part of the range of majors offered at Cal State L.A., most of which are acceptable for law school admission, there are three options which are specified as prelegal. They are the Prelegal option in the Bachelor of Arts degree in Political Science, the Business Arts-Prelegal option in the Bachelor of Science degree in Business Administration, and the Prelaw option in the Bachelor of Arts degree in Philosophy. Two additional choices are the Prelaw minors offered by the Department of Philosophy and the Department of Political Science.

Prelegal advisement is available in the Departments of Finance and Law, Philosophy, and Political Science. Students

interested in a career in law, regardless of major, are encouraged to consult with any of these departments on choice of major and expectations of law schools.

Prelaw students are expected to take the Law School Aptitude Test (LSAT) in the fall quarter of the year preceding their anticipated admission to law school. Application forms may be obtained during the Spring Quarter in the Political Science department office.

Librarianship

The field of librarianship provides careers with diverse opportunities and room for personal and professional growth. The information field is growing, and the work of librarians is expanding to keep pace. Every day librarians sift through clues, uncover facts, and help people weave knowledge from threads of information.

Many libraries also have support and paraprofessional positions that do not require a library science degree but offer valuable experience for someone interested in pursuing work in libraries. For information about the Library Technician nondegree credit certificate program, consult Continuing Education, (323) 343-4900.

For more information, write to Library Careers, ALA/OLPR, 50 East Huron Street, Chicago, Illinois 60611.

Credit Certificate Programs

Certificate programs are designed to augment University curricula by providing specialized instruction and training within a field. These programs usually require significantly fewer units than a degree major. An undergraduate credit certificate program must contain a minimum of 24 quarter units and a graduate level program, 16 units. Normally, courses in certificate programs will be upper division or graduate level, except for prerequisites. Students may transfer from another institution no more than one quarter of the total units required for a certificate (75% of the course work must be completed at Cal State L.A.). A maximum of one quarter (25%) of the total units required for a certificate may be devoted to internships or independent study, or a combination of both. The minimum grade point average required for completion of an undergraduate credit certificate program is C (2.0), and for postbaccalaureate certificates, B (3.0). These grade point average requirements do not pertain to noncredit certificate programs. A Certificate of Completion is awarded upon successful completion of the program requirements. Some certificates are offered within degree majors and can be applied toward a baccalaureate or a master's degree; others are offered through Continuing Education with the certificate being the main goal.

Cal State L.A. offers the following credit certificate programs that are open to qualified undergraduate students. Additional postbaccalaureate and graduate level programs are listed in the Graduate and Postbaccalaureate Study chapter. Individual certificate program requirements and required courses appear in the program listings of the academic departments, divisions, and schools that offer them.

Accounting

Offered by the Department of Accounting, (323) 343-2830, the program is designed to provide an organized series of courses in accounting for students in other majors who wish to qualify to take a professional accounting examination, to meet civil service educational requirements for employment as a

professional accountant or auditor, or to acquire the skills needed for employment as a professional accountant in private industry.

Advanced Information Systems

Offered by the Department of Information Systems, (323) 343-2983, the program is designed to give individuals who are pursuing or have earned a degree in business administration (or have equivalent experience) an introduction to the techniques of information systems design, planning, and management. Applicable toward degrees in business administration.

Alcohol and Drug Problems Specialist

Offered by the Department of Health and Nutritional Sciences, (323) 343-4740, the program prepares students to work in community agencies involved with alcohol and/or drug related problems. Applicable toward degree programs in health science.

Applied Gerontology

Offered by the School of Health and Human Services, (323) 343-4724, this program is designed to enhance the preparation of individuals enrolled in courses or working in health-related disciplines to exercise their effectiveness as practitioners with older populations, particularly ethnic minorities. The program includes instruction about aging in several domains: biological, social/psychological, and policy-social services.

Cartography, Geographic Information Systems and Remote Sensing

Offered by the Department of Geography and Urban Analysis, (323) 343-2220, the program provides a practical approach to the design, layout, and graphics needed in cartographic production.

Child Maltreatment and Family Violence

Offered by the School of Health and Human Services, (323) 343-4600, the program provides individuals from various disciplines with expanded knowledge and formalized education in the area of child abuse and domestic violence, training and field experience in serving this population, and opportunities to qualify for career positions in which multidisciplinary training is required or essential.

Computer Programming

Offered by the Department of Information Systems, (323) 343-2983, the program is designed to prepare individuals for entry-level computer programmer positions. Courses in COBOL programming are required and other programming languages may be studied as electives. Applicable toward the baccalaureate in Business Administration. Also available through Continuing Education, (323) 343-4900, for nonmatriculated students.

Electronics Technology

Offered by the Department of Technology, (323) 343-4550, the program is designed to provide technical knowledge and hands-on skills necessary for employment in electronic manufacturing, electronic field servicing, or electronic design-assisted environment. Applicable toward baccalaureate programs in technology.

Entrepreneurship

Offered by the Department of Marketing, (323) 343-2960, the program is designed to prepare students and business people for careers in small companies: starting companies, managing small businesses, and working in small businesses. The program includes instruction about how to take a product or service from the idea stage through the introduction and growth stages and/or how to successfully manage the business. A focus may be taken in retailing, marketing of services and products, consulting, accounting, finance, or entrepreneurship.

Fashion Design

Offered by the Department of Art, (323) 343-4010, the program provides opportunities for individuals to expand their knowledge and formalized education in the field of fashion design.

Fashion Merchandising

Offered by the Department of Art, (323) 343-4010, the program provides opportunities for individuals to expand their knowledge and formalized education in the field of fashion merchandising.

Finance

Offered by the Department of Finance and Law, (323) 343-2870, the program is designed to prepare individuals who hold or are pursuing a bachelor's degree in a field other than finance for entry into careers in corporate finance, money management, investment banking, and commercial banking.

Fire Protection

Risk Analysis and Reduction

Offered by the Department of Technology, (323) 343-4550, the program offers students and individuals in the insurance industry and in private sector fire protection positions a series of professionally related courses in fire protection and fire safety. The program prepares individuals to serve as fire protection and safety specialists, inspectors, evaluators, and managers. Applicable toward the baccalaureate in fire protection administration and technology.

Fire Service Administration

Offered by the Department of Technology, (323) 343-4550, the program offers fire department personnel who hold an associate degree an opportunity to continue their knowledge and formalized education in the elements of effective modern fire department functioning. Course work covers planning, prevention and disaster administration, public administration, and personnel and budgeting administration. Applicable toward the baccalaureate in fire protection administration and technology.

General Management

Offered by the Department of Management, (323) 343-2890, the certificate program in general management is designed to prepare non-management option business students and non-business students for employment in a general management position, and to provide working and professional people with the general management knowledge necessary for rapid career advancement.

Human Resources Management

Offered by the Department of Management, (323) 343-2890, the certificate program in human resources management is designed to prepare non-management option business students and non-business students for employment in a human resources management position, and to provide working and professional people with the human resources management knowledge necessary for rapid career advancement.

Intercultural Proficiency

Offered by the School of Health and Human Services, (323) 343-4600, the credit certificate program is a university-wide program for all majors designed to increase students' knowledge and awareness about diverse cultural mores and values. The program is also designed to improve students' interpersonal and communication skills with individuals, groups and families from different cultures, and to increase students' knowledge of the variety of services provided by non-profit community social service/youth serving agencies through volunteer participation. Traditional college curricula have not provided students with the tools and skills necessary to be sufficiently prepared to work within multicultural and diversely stratified communities. This program is an effort to equip students with the necessary knowledge and skills to work among culturally diverse groups.

Interior Design

Offered by the Department of Art, (323) 343-4010, the program is designed to prepare individuals for careers in all phases of interior design. Course work includes theoretical, technical, and conceptual experiences leading to portfolio development and career placement. Applicable toward the baccalaureate in art.

International Business

Offered by the Department of Marketing, (323) 343-2960, the program prepares students for careers in firms operating on a multinational basis; for careers in import-export, international finance and banking, and international agencies; and for the Commerce Option of the Foreign Service Officer Examination with the federal government, and to provide training for managers of internationally oriented companies in the Los Angeles area. Applicable toward the baccalaureate in Business Administration. This certificate program is also available through Continuing Education, (323) 343-4900, for nonmatriculated students.

International Business Communication

Offered by the Department of Marketing, (323) 343-2960, this certificate program affords the opportunity to combine language, culture, and communication and business knowledge. The program will give business degree students a chance to add language and intercultural expertise, along with enhanced communication skills, to their program of study. At the same time, it will give language degree students, communication studies students, or area studies students a chance to add business courses to their program of study and obtain a certificate. The certificate will enable students to pursue careers in organizations that want both recognized language skills and business training, such as international businesses, international foundations, non government organizations (NGOs), and international educational organizations. The language, culture and communication components will also benefit students who obtain jobs in local organizations whose employees represent multiple cultures.

International Economic Relations

Offered by the Department of Economics and Statistics, (323) 343-2930, the Certificate Program in International Economic Relations will benefit students to better understand the economic and political factors that influence the global economy. The certificate will help students pursuing careers in federal or state agencies dealing with international affairs, corporations involved in international business and finance, and in international organizations, foundations, and nongovernment agencies.

Labor Relations

Offered by the Department of Economics and Statistics, (323) 343-2930, the Certificate Program in Labor Relations is designed to strengthen the skills of students interested in labor relation careers and improve access to career opportunities for administrators, mediators, arbitrators, and government labor officials.

Marketing

Offered by the Department of Marketing, (323) 343-2960, the program is designed to prepare students in majors other than business for professional careers in marketing in profit or nonprofit organizations. Students may select a focus in marketing management, advertising, public relations, marketing research, retailing, direct response marketing, international marketing, transportation, or financial service marketing. Applicable toward degree programs in business administration. Also available through Continuing Education, (323) 343-4900, for nonmatriculated students.

Obstetrics-Gynecology Nurse Practitioner

Offered by the Department of Nursing, (323) 343-4700, this program is designed for nurses who desire to expand their role by becoming nurse practitioners.

Occupational Safety and Health

Offered by the Department of Health and Nutritional Sciences, (323) 343-4740, the program prepares occupational safety and health professionals to function as generalists in implementing safety and loss control programs in industry or medical institutions. This program was developed in accordance with federal and state legal occupational safety and health acts. Applicable toward the baccalaureate or the master's degree in health science.

Office Systems

Offered by the Department of Information Systems, (323) 343-2983, the program is designed to provide academic preparation for supervisory positions over the technology, people, and procedures within the organizational and environmental contents of an organization. Includes study of integrated and stand-alone software, electronic spreadsheets, data base management systems, telecommunications, and graphics. Applicable toward the baccalaureate in business education.

Operations Management

Offered by the Department of Management, (323) 343- 2890, the certificate program in operations management is designed to prepare non-management option business students and non-business students for employment in an operations management position, and to provide working and professional people with the operations management knowledge necessary for rapid career advancement.

Retail Professional Development

Offered by the Department of Marketing, (323) 343-2960, in conjunction with the Institute of Retail Management, the program is designed to provide the skills required for executive positions in the retail industry and to prepare individuals to become successful entrepreneurs in their own retail business. Available through Continuing Education, (323) 343-4900, for nonmatriculated students.

Transportation (Commercial)

Offered by the Department of Marketing, (323) 343-2960, the program is designed for individuals intending to pursue a career or enhance their advancement potential in the field of industrial traffic and transportation or carrier operation. Applicable toward the baccalaureate in business administration. Also available through Continuing Education, (323) 343-4900, for nonmatriculated students.

Urban Land Use and Property Analysis

Offered by the Department of Geography and Urban Analysis, (323) 343-2220, in cooperation with the Department of Finance and Law, the program provides students and professionals with technical and analytical training for evaluating current problems confronting the urban community.

Youth Agency Administration

Offered by the School of Health and Human Services in conjunction with American Humanics, Inc., (323) 343-4580, the program is designed to prepare professionals for careers in youth agency administration. Applicable toward baccalaureate programs.

Recognition of Academic Excellence

Cal State L.A. recognizes superior academic achievement by conferring honors upon students with outstanding records at an annual spring Honors Convocation and at the annual Commencement Exercises in June.

Recognition is accorded at the annual Honors Convocation to undergraduate students placed on the Dean's List, those who were awarded Honors at Entrance, members of the General Education Honors Program, and both undergraduate and graduate students selected by their major departments and divisions to receive the Alumni Association Certificate of Honor. Students receiving Special Recognition in Graduate Studies are also honored. Also recognized at the Honors Convocation are recipients of academic scholarship awards and juniors and seniors elected to membership in national honor societies. The requirements for Honors at Entrance, Dean's List, and Certificate of Honor and Special Recognition in Graduate Studies awards are as follows:

Honors at Entrance

First-time freshmen who enter with a grade point average of 3.5 or higher on their high school record.

Dean's List

Undergraduate students who earn a 3.4 grade point average or higher for a quarter in which they complete 12 or more units of traditionally graded course work and who rank in the upper five percent of students in academic achievement within their school. The preceding eligibility criteria also apply to graduate students seeking a second or subsequent baccalaureate. Students will not be added retroactively to the Dean's List on the basis of completion of work in which the original grade was I (Incomplete).

Graduation with Honors

Baccalaureate graduates of Cal State L.A. who maintain an outstanding scholarship record while earning the degree receive special recognition upon graduation. These honors, designated on the diploma and the permanent academic record, are granted to the top 5% of students graduating in each school, calculated from grade point averages achieved at Cal State L.A. These percentages are calculated once for each academic year (the academic year is defined as Summer, Fall, Winter, and Spring Quarters). Eligibility is limited to students who have earned at least 60 quarter units in residence at Cal State L.A. Second baccalaureate candidates who are eligible for University honors may receive those honors for which they qualify. Students pursuing an advanced degree or a teaching credential are not eligible for such honors.

Honors at graduation are determined according to the criteria listed below.

Honors Category	Percentage
Cum laude (honor)	Top 5%
Magna cum laude (high honor)	Top 4%
Summa cum laude (highest honor)	Top 1%

For these calculations, Rehabilitation Services majors (Charter School of Education) will be included with the competition pool for the School of Health and Human Services. Students with a Special Major will be included with the school in which they have earned the majority of the units in their major.

General Education Honors Program

Cal State L.A.'s General Education Honors Program provides highly qualified students with diverse, enriched intellectual activities through a separate curriculum which includes honors classes, seminars, and research. Honors courses promote intellectual curiosity, critical reading, and logical thought and writing. These courses have a lower student enrollment than other general education courses and are taught by the University's finest professors, many of whom are nationally recognized authorities in their field of study. Honors students not only have the opportunity to accelerate their academic program; they also encounter challenging and rewarding educational experiences.

The General Education Honors Program:

- Facilitates student participation in the National Collegiate Honors Council (NCHC) and the Western Regional Honors Council (WRHC).
- Provides high-potential students an opportunity to participate in intellectually demanding and academically challenging General education courses.
- Offers opportunities for greater interaction with peers and involvement in interdisciplinary learning.
- Identifies Cal State L.A. resources through which high-potential students can receive academic, personal, and career counseling to help them better define and reach their goals.
- Creates opportunities for high-potential students and faculty members to establish closer educational relationships.
- Prepares students for participation in upper division departmental honors programs.

General Education Honors Program Students are offered the following special opportunities:

- Special sections of general education courses. Participation in courses appropriately modified in content, methodology, and level of enrichment for the high potential student.
- Honor societies. Coordination of membership with other honors organizations.
- Priority registration privileges. Students are allowed priority registration privileges.
- Waiver of prerequisites. With department or division approval, students with appropriate background may be allowed to enroll in upper division courses without having met the usual lower division prerequisites.
- Club membership. All program students hold membership in the General Education Honors Club.
- Student Association. All students in the program hold membership in the Student Association, which promotes nonacademic and social interests and serves as a source of enrichment to the University by sponsoring and arranging activities beneficial and open to the entire campus. The group is represented on the Honors Council and aids the director and the council in the developing and implementing the program.

Honors classes that meet general education requirements are available each quarter. These classes are designated as General Education Honors Program courses and enrollment is restricted to honors program students. All courses seek to

explore more advanced and sophisticated areas of knowledge than regular general education offerings, although they meet general education requirements. A higher level of achievement is expected. Honors Program students are required to complete at least 24 units of these courses with a minimum B (3.0) grade point average to earn a General Education Honors Program certificate.

For further information, contact the Program Director, Honors Program office, in the Library, Palmer Wing, phone (323) 343-4960.

Departmental Honors Programs

Further recognition of academic excellence is accorded through Cal State L.A.'s departmental honors programs, offered presently in anthropology, biology, chemistry, child development, and physics. Students who maintain a superior grade point average and have faculty recommendation are permitted to enroll in an honors program in their elected major. Considerable freedom is provided students and their advisers in designing enriched programs of study. This may include deviation from traditional course patterns to permit additional work in subjects related to the major, more intensive study in subject areas of special interest, and participation in special colloquia, independent study, individual research, and honors theses.

Students who complete these honors programs receive citations of departmental honors on their transcripts and diplomas.

Alumni Association Certificates of Honor

Awarded to undergraduate and graduate students who are selected by their academic department or division for outstanding achievement in the field of study. Undergraduate recipients of this award must have maintained a B (3.0) grade point average or higher and completed at least 45 units required for their degree program at Cal State L.A. Additional criteria may be added by individual departments or divisions.

National Honor Societies

Chapters of more than twenty national honor societies have been chartered at Cal State L.A. to accord recognition to students who demonstrate superior scholarship and leadership in academic areas. A specific minimum grade point average, ranging from 3.0 to 3.85, is required for initiation into each of these honor societies.

National Honor Society

	Discipline(s)
Alpha Kappa Delta, Iota Chapter.....	Sociology
Beta Alpha Psi, Beta Lambda Chapter	Accounting
Beta Gamma Sigma, Eta Chapter	Business
Chi Epsilon, Cal State L.A. Chapter	Civil Engineering
Delta Pi Epsilon, Beta Pi Chapter.....	Business Education
Epsilon Pi Tau, Alpha Psi Chapter	Technology
Eta Kappa Nu, Epsilon Nu Chapter	Electrical Engineering
Golden Key, Cal State L.A. Chapter.....	all academic disciplines
Kappa Delta Pi, Iota Phi Chapter	Education
Kappa Pi, Gamma Tau Chapter	Art
Omicron Delta Epsilon, Eta of California Chapter.....	Economics
Phi Alpha Theta, Eta Xi Chapter	History
Phi Beta Delta, Zeta Chapter	International scholars
Phi Delta Kappa, Campus Chapter No. 121	Education
Phi Kappa Phi, Cal State L.A. Chapter .	all academic disciplines
Pi Delta Phi, Epsilon Nu Chapter	French
Pi Lambda Theta, Alpha Psi Chapter	Education
Pi Sigma Alpha, Gamma Omega Chapter	Political Science
Pi Tau Sigma, Sigma Kappa Chapter..	Mechanical Engineering
Psi Chi, Cal State L.A. Chapter.....	Psychology
Sigma Delta Pi, Gamma Psi Chapter	Spanish
Sigma Theta Tau	Nursing
Tau Beta Pi, California Iota Chapter.....	Engineering

Career Placement Information

The campus may furnish, upon request, information about subsequent employment of students who receive academic degrees in programs or courses of study that prepare them for a particular career field. This information includes data concerning average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all California State University campuses. Copies of the published information are available in the Cal State L.A. Office of Admissions and University Outreach, Student Affairs 101.

Graduate and Postbaccalaureate Study: General Information

List of Graduate Degrees, Majors and Certificate Programs

List of Teaching Credential Programs

General Graduate and Postbaccalaureate Information

University Requirements for Master's Degrees

Minimum University Requirements

Credit for Transfer Work

Work Taken Before Approval of Program

Credit for Extension Courses

Classified Graduate Standing

Other Graduate and Postbaccalaureate Regulations

Advancement to Candidacy to Undertake Culminating Experience

Culminating Experience: Exam, Thesis or Project

Graduation

Requirements for Additional Master's Degrees or for
an Additional Option within a Master's Degree

Additional Graduate and Postbaccalaureate Student Information

List of Graduate Degrees, Majors and Certificate Programs

Master's Degree Programs

Master of Arts

Majors:

Anthropology
Art
Child Development
Communication Studies
Communicative Disorders
Economics
Education
Educational Administration
English
French
Geography
Health Science
History
Industrial and Technical Studies
Interdisciplinary Studies (formerly Special Major)
Latin American Studies
Mexican-American Studies
Music
Philosophy
Physical Education
Political Science
Psychology
Sociology
Spanish
Special Education
Teaching English to Speakers of Other Languages (TESOL)
Theatre Arts

Master of Science

Majors:

Accountancy
Biology
Business Administration
Chemistry
Civil Engineering
Counseling
Criminalistics
Criminal Justice
Electrical Engineering
Geology
Health Care Management
Information Systems

Master of Science (cont'd)

Interdisciplinary Studies (formerly Special Major)
Mathematics
Mechanical Engineering
Nursing
Nutritional Science
Physics
Psychology
Public Administration

Master of Business Administration

Master of Fine Arts in Art

Master of Music

Master of Social Work

Doctor of Philosophy in Special Education

Certificate Programs

Postbaccalaureate Certificate Programs

Accounting
Advanced Information Systems
Applied Behavior Analysis in Educational Settings
Autism
Biotechnology
Career Counseling
Computer Applications in Schools
Developmental Counseling
Early Childhood Special Education: Infancy Emphasis
Early Childhood Special Education: Preschool Emphasis
English as a Second or Foreign Language (ESL)
Environmental Health Science
Industrial Chemistry
Manufacturing
Professional Employee Counseling
Rehabilitative/School Audiology
Storytelling
Teaching Critical Thinking

Post-Master's Certificate Programs

Acute Care Nurse Practitioner: Adult Cardiopulmonary Specialty
Adult Case Manager: Adult Care
Adult Nurse Practitioner Specialty
Pediatric Acute Care Nurse Practitioner
Pediatric Nurse Practitioner Specialty

List of Teaching Credential Programs

Basic Teaching Credentials Multiple Subject Teacher Preparation Programs

Currently offered with the following degrees:

- Afro-American Studies BA
- Child Development BA, Option II
- Geography BA
- History BA
- Latin-American Studies BA
- Liberal Studies BA
- Mexican-American Studies BA
- Philosophy BA
- Physical Education BS

Single Subject Teacher Preparation Programs

The California Commission on Teacher Credentialing is in the process of initiating new subject matter credential programs at the time this catalog is going to press. All new subject matter credential students will be required to follow new programs when they are approved by the Commission. Students who are enrolled in an existing program before the expiration date will be required to complete the existing program by that date. Students should contact subject matter program advisers for the latest information.

Single Subject Authorized Area	Degree Program
Art	Art, BA
English	English, BA
English	Speech Communication, BA
Industrial and Technology Education	Industrial Arts, BA
Industrial and Technology Education	Industrial Technology, BS
Language Other Than English	French, BA
Language Other Than English	Japanese, BA
Language Other Than English	Spanish, BA
Health Science	Health Science, BS
Mathematics	Mathematics BA, BS
Music	Music, BA
Physical Education	Physical Education, BS
Science	Natural Science, BS
Social Science	Social Science, BA

An internship credential option is available for the subject matter credential.

Supplementary Authorizations

To accompany Single Subject or Multiple Subject Teaching Credentials:

The holder of a multiple subject or a single subject teaching credential issued by the California Commission on Teacher Credentialing may have one or more of the subjects commonly taught in departmentalized classes added to the credential as a supplementary authorization by verifying completion of the requirements specified in Title 5, *California Code of Regulations*, 80057.5 or 80089, 8089.1, and 80089.2. Supplementary authorizations cannot be issued in any subject

that falls within the statutory single subject category of an applicant's single subject teaching credential.

A partial listing of supplementary authorizations and the credentials to which they apply are listed below. Recommended courses for these are included in department/division listings earlier in the catalog. Interested students should consult an adviser in the specific department/division about other appropriate course work. Contact the Charter School of Education Office of Student Services (KH D2078) for information about the specific requirements for subjects approved for supplementary authorization and the procedure for applying to the Commission.

Supplementary Authorized Area	Type of Credential Required
Introductory Mathematics	Single Subject
Mathematics	Multiple Subject
Biological Sciences	Single Subject
Chemistry	Single Subject
Comparative Political Systems and International Relations.....	Single Subject
Geosciences	Single Subject
Geography	Single Subject
Physics.....	Single Subject
U.S. Government and Civics	Single Subject

Specialist Instruction Credentials Education Specialist Credentials

- Early Childhood Special Education
- Mild/Moderate Disabilities
- Moderate/Severe Disabilities
- Physical and Health Impairments
- Visual Impairments

Other Specialist Credentials

- Adapted Physical Education
- Reading/Language Arts

Designated Subjects

- Vocational Education

Services Credentials

Administrative Services

- Preliminary Administrative Services
- Professional Administrative Services

Clinical-Rehabilitative Services

- Audiology
- Language, Speech and Hearing
- Language, Speech and Hearing—Special Class Authorization
- Orientation and Mobility

Health Services—School Nurse

Pupil Personnel Services

(includes advanced specializations in School Counseling and in Child Welfare and Attendance Services)

- School Counseling and Child Welfare and Attendance Services
- School Psychology and Child Welfare and Attendance Services
- School Psychology (internships available)

General Graduate and Postbaccalaureate Information

Introduction

Graduate study has been a major part of the academic commitment of Cal State L.A. since its founding. Students who are engaged in graduate and Postbaccalaureate study constitute nearly one third of the total student body.

Cal State L.A. offers Master of Arts and Master of Science degrees in a variety of majors, with opportunities for specialization through the selection of options or areas of emphasis within degree programs. Also offered are the Master of Business Administration degree, Master of Fine Arts degree in Art, Master of Music, Master of Arts and Master of Science degrees with an Interdisciplinary Studies major, Master of Social Work, and the Doctor of Philosophy degree in Special Education. The complete list of graduate degrees offered appears at the front of this chapter.

Postbaccalaureate students pursue teaching credentials, certificate programs, and personal enrichment courses.

Objectives of Graduate Study

Cal State L.A.'s graduate programs are coherent patterns of study designed for a level of academic accomplishment substantially beyond that required for the baccalaureate. Graduate programs enable students to progress in their chosen vocation, to assume positions of leadership, and to contribute to the advancement of their profession. Graduate study helps students to develop greater awareness of themselves in relation to other people and cultures, both present and past, and to gain a better understanding of their particular profession. Completion of a master's degree program at Cal State L.A. also prepares students for further graduate study appropriate to their abilities and ambitions.

Organization of

Graduate Study at Cal State L.A.

Graduate study at Cal State L.A. is organized and administered by each of the six schools within the University, with coordination provided by the Dean of Graduate Studies and Research.

This Graduate and Postbaccalaureate Study section of this catalog describes the requirements, regulations, and procedures for engaging in graduate study. General University regulations and procedures that apply to postbaccalaureate or graduate students, including the grading system and the determination of scholastic status, are explained in the **Procedures and Regulations** chapter earlier in this catalog. Admission requirements and procedures are explained in the **Admissions** chapter.

Requirements for admission, advancement to classified graduate standing and candidacy, and graduation described in this section apply to all advanced degree programs. Any additional requirements are stated in the descriptions of the individual programs.

Each department/division that offers graduate degree programs and/or credential programs has a principal graduate adviser as well as credential advisers (when applicable). These advisers' names and phone numbers appear each quarter in the *Schedule of Classes*, and students can make appointments to see them in their offices.

Graduate Studies Directory

Office of Graduate Studies and Research

Dean of Graduate Studies and Research Theodore J. Crovello
Administration 710.....(323) 343-3820
Associate Dean Costello L. Brown
Administration 710(323) 343-3820

School Graduate Deans

SCHOOL OF ARTS AND LETTERS

Associate Dean Eri F. Yasuhara
Music 232.....(323) 343-4004

SCHOOL OF BUSINESS AND ECONOMICS

Associate DeanHugh Warren (*Acting*)
Simpson Tower F124(323) 343-2800

CHARTER SCHOOL OF EDUCATION

Associate Dean Kathryn Reilly
King Hall D2070(323) 343-4303

SCHOOL OF ENGINEERING AND TECHNOLOGY

Associate DeanEthan B. Lipton
Engineering and Technology A237(323) 343-4510

SCHOOL OF HEALTH AND HUMAN SERVICES

Associate Dean Karen Johnson
Fine Arts 128.....(323) 343-4602

SCHOOL OF NATURAL AND SOCIAL SCIENCES

Associate Dean Joseph Bragin
King Hall D1051(323) 343-2005

Characteristics of Master's Degrees

Cal State L.A. offers the following master's and doctoral degrees: Master of Arts, Master of Business Administration, Master of Fine Arts, Master of Music, Master of Science, Master of Social Work, and Doctor of Philosophy. All six master's degrees and the doctoral degree require greater depth of study and increased demands on student intellectual or creative capacity than the baccalaureate. Characteristics of individual degrees are described below.

Specific information about admission requirements, curriculum, and graduation requirements for these programs is listed alphabetically by school and department/division in either the **Academic Programs: School-based and Universitywide chapter** or in the **Academic Programs: Department, Division, and Interdisciplinary Program-based chapter**, both of which follow this chapter.

The Master of Arts (M.A.) degree provides a broadened cultural background in a recognized disciplinary field or improvement of professional competence.

The Master of Business Administration (M.B.A.) degree provides a program of professional preparation for management positions in business and industry.

The Master of Fine Arts (M.F.A.) degree in Art provides specialized training and education for artists and designers in design, computer graphics, painting and printmaking, sculpture, ceramics, textiles, and metalsmithing.

The Master of Music (M.M.) degree is a professional performance degree that prepares students for professional performance, for teaching in community colleges, and for advanced study.

The Master of Science (M.S.) degree provides the opportunity to improve professional competence in areas and approaches involving intense specialization.

The Master of Social Work (M.S.W.) degree provides a program of professional preparation for advanced entry into specialized social work practice where graduates will be able to provide effective services to individuals, families, groups, organizations, and communities.

The Doctor of Philosophy (Ph.D.) degree in Special Education, which provides advanced preparation in this diverse professional field, is offered jointly with the University of California, Los Angeles.

Interdisciplinary Studies Master's Degrees

The Interdisciplinary Studies Master of Arts or Master of Science degree is a highly restricted interdisciplinary program for students whose professional or academic objectives are unique and cannot be met by existing master's degree offerings. It consists of an individual program of course offerings from at least two departments/divisions in related disciplines and must provide sharp focus and appropriate coherence. See the University Programs section of the ***Academic Programs: School-based and University-wide*** chapter.

Teaching Credentials

Teaching, specialist, and services credential programs are available to students who hold an acceptable baccalaureate. Students who seek teaching credentials must fulfill admission

criteria and program requirements established by the Charter School of Education in accordance with the California Commission on Teacher Credentialing. Students who are admitted into a teaching credential program are referred to as postbaccalaureate classified students. Description of admission criteria and program requirements appear in the ***Undergraduate Studies: General Information chapter and in the Charter School of Education section of the Academic Programs: School-based and University-wide chapter.***

Credit Certificate Programs

Students who have a baccalaureate may enroll in a certificate program to receive specialized instruction and training within a particular field. Students who pursue a certificate must fulfill admission criteria and program requirements established by the departments, divisions, and schools that offer the programs.

Individual admission and program requirements appear in academic department/division listings in the ***Academic Programs: School-based and University-wide chapter.***

Enrichment Courses

Persons who hold a bachelor's degree may enroll in courses that provide personal enrichment. Because such students are not enrolled in specific graduate programs, they are referred to as postbaccalaureate unclassified students. They must fulfill all University eligibility requirements for admission and continuing student academic standing. Because they are not enrolled in graduate programs, they may not apply those courses toward a master's degree at Cal State L.A.

University Requirements for Master's Degree

Minimum University Requirements

All candidates for master's degrees at Cal State L.A. must fulfill the following minimum requirements:

Unit Requirement

Completion of at least 45 quarter units in approved courses, of which at least half (23) must be graduate (500-level) courses. Master's degree programs whose minimum total units are established at more than 45 quarter units must include at least half of those units in courses at the graduate (500) level.

Grade Point Average Requirement

Achievement of a minimum B (3.0) grade point average in all courses on the approved degree program. A grade of C is allowed on the program; however, any grade below C, including C-, requires that the course be repeated with both grades computed in the grade point average.

Residence Requirement

At least 32 quarter units for the master's degree completed in residence at Cal State L.A.

Postbaccalaureate

Writing Proficiency Requirement

Fulfillment of the Postbaccalaureate Writing Proficiency Requirement, as described later in this chapter.

Culminating Experience Requirement

A comprehensive examination or a thesis or project as described later in this chapter.

Completion of Program

Completion of a master's degree requires:

- (1) completion of the final approved program and any special department/division requirements and
- (2) passing of a comprehensive examination within the number of attempts allowed by the department/division and school, or filing of a thesis or project report approved by the candidate's thesis/project committee and cleared by the Library.

Time Limitation

No subject, unit, or grade credit will be granted for any course completed more than seven years before the date of completion of the master's degree. In extraordinary circumstances, students may petition for, and the school may grant, permission to validate such an expired course by an examination given by, and with the concurrence of, the department/division that offers the course. An expired course taken at another institution may not be validated by examination.

Faculty Recommendation

Recommendation for the degree by the faculty.

Advisement

As the first step of registration, all students must obtain department/division approval of the courses selected for their study program for each quarter. To assist in the initial advisement and course selection process, newly admitted students must bring a personal copy of their college transcripts and their evaluation, if received.

Early in their first quarter, students should make an appointment with a graduate faculty adviser to plan a complete program of study for the degree, if this cannot be accomplished during the advisement session preceding the initial registration. The approved master's degree program becomes the basis for evaluating the student's eligibility for receiving the degree. Changes in the program of study may be made only with the approval of the student's academic adviser and school graduate dean. Students who have not declared a degree or credential objective should consult the Associate Dean of Graduate Studies and Research, Administration 710.

Graduation Writing

Assessment Requirement (GWAR)

(Postbaccalaureate Writing Proficiency Requirement)

All CSU students must demonstrate competence in writing skills as a requirement for graduation. All Cal State L.A. postbaccalaureate and graduate students who entered Cal State L.A. summer 1984 or later and who are pursuing a graduate degree or a credential are required to satisfy this requirement in one of the following ways:

- Pass the Writing Proficiency Examination (WPE) required for the Cal State L.A. baccalaureate. Postbaccalaureate students who select this option must register for the WPE (listed as UNIV 400 in the *Schedule of Classes*) no later than the add deadline for the first quarter they are enrolled in a graduate or credential program. Failure to register for the WPE will void enrollment for that quarter; or
- Postbaccalaureate students who hold an earned doctorate from an accredited college or university where the primary language of instruction is English may substitute such a degree for passing the WPE; or
- Postbaccalaureate students who have passed a writing proficiency examination or a graduation writing assessment examination in English at any accredited college or university where the primary language of instruction is English may petition to substitute such a result for passing the WPE at Cal State L.A.

Students who receive a No Credit (NC) grade on the WPE must meet with a WPE consultant in the University Writing Center to discuss deficiencies identified by the exam and receive recommendations of activities to correct these deficiencies. Based on the recommendations from the WPE consultant, students may retake the WPE or enroll in UNIV 401, the upper division writing proficiency course.

Postbaccalaureate students in the Charter School of Education and the School of Health and Human Services may satisfy the GWAR with a score of 41 or better on the California Basic Educational Skills Test (CBEST). Students in these schools must submit the original CBEST score reports to their graduate dean's office for processing.

Postbaccalaureate students must satisfy this postbaccalaureate requirement within the first three quarters of their graduate (conditionally classified or classified) or credential program or before the completion of 16 units, whichever comes later. Students must satisfy this postbaccalaureate writing requirement within the required time to be eligible for continued registration.

Departments and divisions may require of their majors additional discipline-based course work in writing. See a faculty adviser about major department/division requirements.

Petitions for certification of the postbaccalaureate writing requirement shall be made at the school level and results reported to the Dean of Graduate Studies and Research. A student who has satisfied the postbaccalaureate writing requirement shall continue to be certified with no time limit on such certification.

Postbaccalaureate unclassified students are not required to satisfy this postbaccalaureate writing requirement.

Credit for Transfer Work

To receive credit toward a master's degree for acceptable postbaccalaureate work taken at other colleges and universities, students must have official transcripts forwarded to the Admissions Office and must file a "Request for Records" (Form GS-1A) with their major department/division. Cal State L.A. will allow credit for work taken at another college or university only when it appears on the student's official transcript from that institution, is acceptable for master's degree credit at the offering institution, and is deemed appropriate to the student's master's degree program by the major department/division at Cal State L.A. The following limitations and exclusions apply:

- For master's degrees that require 45 total units, no more than 13 quarter units of acceptable transfer, extension and/or special session courses may be included on a master's degree program. For master's degrees that require more than 45 quarter units, up to 30% of the total required units may consist of acceptable transfer, extension, and/or special session courses, if approved by the appropriate graduate/departamental adviser.
- No master's degree credit is allowed for directed teaching, 700- or 800-level courses, courses numbered below 400, and courses taken at another accredited institution that would not be accepted toward a master's degree at that institution.
- Nine quarter units of 500-level or other graduate courses taken through extension are eligible for master's degree credit.

Work Taken before Approval of Program

No more than 13 quarter units of acceptable course work completed before approval by the principal graduate adviser, major department/division, and school graduate dean may be included on a master's degree program. This includes acceptable transfer work. Credit for thesis (i.e., 599), research (i.e., 597), and comprehensive examinations (i.e., 596) is not transferable. All other course work included on the master's degree program must be completed after approval by the principal graduate adviser, major department/division, and school graduate dean. This policy shall not apply to students admitted to a master's degree program offered jointly with other educational institutions.

Credit for Extension Courses

No graduate credit will be allowed for extension courses that would not be accepted toward a master's degree at the offering institution (e.g., University of California extension courses in the X300 or X400 series) unless specifically approved in advance by the major department/division and school concerned.

Classified Graduate Standing

Requirements for

Classified Graduate Standing

All students who have declared a master's degree objective are admitted to, and remain in, conditionally classified standing until they meet the following conditions. Classified graduate standing constitutes admission to an authorized graduate degree curriculum and is granted by the school graduate dean upon completion of all requirements listed below and upon the recommendation of the major department/division.

The requirements enumerated below are minimum University requirements. Departments/divisions or schools may utilize additional or more restrictive requirements for admission to classified graduate standing in individual master's degree programs. The minimum University requirements for admission to classified graduate standing are as follows:

- Satisfaction of the minimum grade point average required for classified standing in the specific program.
- Certification by the major department/division to the school graduate dean that all department/division admission requirements, procedures, and prerequisites have been completed.
- Filing of a master's degree program with the school graduate dean during the student's first quarter of graduate enrollment at Cal State L.A. The program must be approved by the principal graduate adviser and the major department/division. Any change in the program must be approved by the principal graduate adviser, the major department/division, and the school graduate dean before they complete courses affected by the change. This includes courses in which a grade of Incomplete is received.

Special Action Admission Students

- Except for those who hold an advanced degree from an accredited institution, all students admitted by special action must complete a minimum of 14 quarter units of upper division qualifying courses on a formally approved master's degree program with a minimum B (3.0) grade point average with the following conditions:
- The principal graduate adviser, major department/division, and school graduate dean must approve qualifying courses before the student completes them. Courses graded CR/NC may not be used on the qualifying program.
- Upon recommendation of the principal graduate adviser and the major department/division, and with the approval of the school graduate dean, qualifying courses may be waived for students whose postbaccalaureate work demonstrates promise of the scholarly ability required for graduate study. To be eligible for recommendation of such a waiver, a student must have completed, with a minimum B (3.0) overall grade point average, 14 or more quarter units of upper division or graduate level postbaccalaureate work at an accredited institution that is acceptable toward a master's degree at that institution.

- Failure to achieve a B (3.0) grade point average in qualifying courses will result in the student's termination in the degree program.

Admission to

Classified Graduate Standing

When the major department/division provides the necessary documentation to the school graduate dean, indicating that all requirements for classified graduate standing have been met, the conditional program, if filed, or the master's degree program then submitted will be approved by the school graduate dean and will become the student's official master's degree program. This graduate program is a statement of academic requirements that students must complete for the master's degree. Students must have an approved master's degree program on file and must have achieved classified standing before they can be advanced to candidacy.

Other Graduate and Postbaccalaureate Regulations

Admission to 500-Level Courses

Students admitted with postbaccalaureate classified, graduate classified, or graduate conditionally classified standing may enroll in 500-level courses. The following exceptions and restrictions apply:

- Postbaccalaureate unclassified students may register for 500-level courses if the department/division chair determines that space is available. These students must satisfy all prerequisites for the course and obtain the approval of the instructor, the principal graduate adviser, and the chair of the department/division that offers the course.
- Undergraduate students may, with prior approval and subject to policies governing graduate credit for undergraduate students, enroll in one 500-level course. See Graduate Credit for Undergraduate Students.
- Matriculated Cal State L.A. students may not enroll in Open University courses. Students who are not matriculated at Cal State L.A. may enroll in 500-level courses through the Open University (concurrent enrollment) Program administered by the Office of Continuing Education. These students must satisfy all prerequisites for the course and obtain the approval of the instructor and the chair of the department/division that offers the course.
- Schools and departments/divisions may impose additional restrictions. For all programs, students may complete no more than 20% of their total units at the 500 level before their principal graduate adviser, major department/division, and school graduate dean have formally approved their official master's degree program. In addition, all such students must either have completed the prerequisites for the course or demonstrated equivalent competency.

Enrollment in Degree Credit-Granting Classes through Continuing Education

Students who are matriculated at the University in continuing status may enroll in, and earn residence credit for, courses that are offered through Continuing Education in self-support special sessions. Any course or program offered in special session must, each time that it is offered, have the approval of the appropriate school dean and the Provost and Vice President for Academic Affairs. Matriculated students at the

University in continuing status may not enroll in degree credit-granting classes offered under state support and made available to students by Continuing Education through Open University.

Courses Completed in Undergraduate Standing

Students can include no courses taken as an undergraduate on a master's degree program except as specifically provided for baccalaureate candidates in their final quarter of undergraduate study.

Undergraduate Preparation

No credit toward a master's degree is allowed for course work taken to meet necessary undergraduate preparation for a master's degree program.

Course Additions/Deletions

A course may not be added to or deleted from a master's degree program after it has been taken. Any change in the master's degree program must be approved in advance by the principal graduate adviser, major department/division, and school graduate dean. When such a change has been approved, it becomes part of the master's degree program.

Program Change Limitation

No more than nine quarter units beyond the total number of units approved at the time a student achieves classified graduate standing may be added to a student's master's degree program.

Course Prerequisites and Corequisites

Students are responsible for fulfilling prerequisites and corequisites. The instructor and department/division have the authority to waive specific prerequisites and corequisites for students who have completed equivalent courses at another institution, who have had equivalent experience (such as work experience), or who possess the needed skills to proceed with the work of the course. Students should consult the instructor before registering to determine whether the course(s) or experience will justify waiver of the stated prerequisite(s) and/or corequisite(s).

Qualifying Courses

All qualifying courses that are otherwise eligible may be included in a master's degree program if recommended by the principal graduate adviser and major department/division and approved by the school graduate dean. Students must obtain approval to include qualifying courses on the master's degree program before they complete the courses.

Student Use of Human Subjects or Animals

Students, like all others in the University community, must follow established University and federal guidelines when using human subjects or animals either in research or as part of a course activity. Prior approval by the relevant campus committee must be obtained when necessary. For further information, contact the Office of Research and Sponsored Programs, (323) 343-5366, or visit the World Wide Web site at web.calstatela.edu/academic/orsp.

Graduate Grading System and Scholastic Status

NOTE: For an explanation of the grading system for graduate and postbaccalaureate students, see the charts labeled **Explanation of Graduate and Postbaccalaureate Grades** in

the **Grading System** section of the **Procedures and Regulations** chapter of this catalog. For an explanation of the regulations about probation and disqualification, see the **Scholastic Status of Graduate and Postbaccalaureate Students** section in the same chapter.

Advancement to Candidacy to Undertake Culminating Experience

Advancement to candidacy is a part of the continuing process of review of the student's progress and is not automatic. It is granted by the school graduate dean upon completion of the requirements listed below and upon the recommendation of the major department/division. It is the University prerequisite to enrolling for the thesis, project, and comprehensive examination; individual departments/divisions and schools may have additional requirements.

Advancement to candidacy requires:

- Satisfaction of Graduation Writing Assessment Requirement.
- Classified graduate standing.
- An approved master's degree program on file in the school graduate studies office.
- Completion of a minimum of 16 quarter units of the master's degree program with an overall B (3.0) grade point average or higher.
- Recommendation of the major department/division.
- Approval of the school graduate dean.

Only students who are advanced to candidacy are eligible to enroll for comprehensive examinations (course #596 in their major discipline) or for thesis or project units (course #599 in their discipline).

Culminating Experience: Exam, Thesis, or Project Comprehensive Examinations

Each program that offers the comprehensive examination for the master's degree shall implement and maintain in writing explicit guidelines that address both content and procedures relating to the examination. All comprehensive examinations must conform to the following requirement of Title 5, i.e., "A comprehensive examination is an assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. The results of the examination provide evidence of independent thinking, appropriate organization, critical analysis, and accuracy of documentation. A record of the examination questions and responses shall be maintained in accordance with the records retention policy of The California State University."

Students must fulfill all department/division requirements for the written and/or oral comprehensive examinations. Such requirements include, but are not limited to, the date and time for the comprehensive examinations, length of testing, topics covered, and number of questions for the comprehensive examinations.

Students whose program requires a comprehensive examination must declare to their major department/division, at least one quarter in advance, their intent to take it, obtain department/division permission, and register for the comprehensive examination that carries the course number 596 in their major discipline. Students who are not enrolled in any credit-bearing course during the quarter in which they take the comprehensive examination must pay the comprehensive

examination fee. Students who elect comprehensive examination options are not permitted to enroll in UNIV 900. Payment of State University, student services, facilities, and Associated Students, Inc. (ASI) fees, or any tuition charges, is not required.

Students should expect to take their comprehensive examinations during the quarter in which they complete all course work on their program or shortly thereafter. Those who do not pass the comprehensive examinations must fulfill any department, division, and/or school requirements for subsequent enrollments in these examinations.

Thesis and Project Requirements

Students who choose to write a thesis or project as their master's degree culminating experience should consult the "Guide to Preparation of Master's Theses and Project Reports," copies of which are available in department/division offices for reference or in the campus bookstore for purchase. It is also available at the Cal State L.A. World Wide Web site. It provides information about the following: procedures, regulations, and responsibilities governing the master's thesis or project; general requirements for thesis preparation and acceptance; format requirements for the thesis; and special instructions for projects and project reports. In addition, students must obtain specific department/division requirements from their adviser.

Graduate students who complete research units (597) and thesis or project units (599) required for master's degrees must be regularly enrolled during any quarter in which they use University facilities or consult with faculty.

Students who have exceeded the one calendar year time limitation associated with the SP grading symbol for research units (597) must petition to register in UNIV 900. Petition forms and instructions are available in school graduate studies offices.

Students who have previously enrolled in all allowable research units (597) and are not enrolled in any other credit-bearing courses or thesis or project units (599) but who will use University facilities or consult with faculty must register in UNIV 900.

To maintain residence requirements and continuing student registration privileges, graduate students who are not enrolled in credit-bearing course work must register for UNIV 900 two quarters out of four.

Once officially accepted and processed, master's theses and projects are made available to the public through the Library.

Graduation

Application for Graduation

Application for graduation (degree check) is made on a form that is available at Administration 146, academic department/division offices, and school-based advisement centers. Candidates must be granted permission to apply for graduation must be granted permission by their major department/division or school-based advisement center before they may submit the completed application and required fee to the Cashiers' Office for fee payment.

Students are required to file an application by the deadline announced in the *Schedule of Classes*. Students who are enrolled the quarter they expect to graduate but do not meet the degree requirements will have their graduation application transferred to the next quarter. Students who do not complete requirements for the stated quarter must file a new application

by the deadline announced in the *Schedule of Classes*. More information appears in the Undergraduate Study chapter of this catalog.

Students will be granted no subject, unit, or grade credit for any course work they completed more than seven years before the date of issuance of their master's degree. Refer to *Time Limitation* under the heading **Minimum University Requirements** earlier in this chapter.

Commencement Exercises

Commencement Exercises are held annually at the end of the spring quarter. Students who have completed degree requirements the previous summer, fall, or winter quarter are eligible to participate in the ceremony along with those who complete their work in the spring quarter. Information bulletins about commencement activities are mailed to the home address of those eligible to participate early in the spring and are available on campus in school, department/division offices and Enrollment Services, Administration 146.

During Commencement Exercises, the President of the University confers degrees on the candidates. Although each candidate receives a diploma cover during the program, the actual diploma is sent several months later. Within a few weeks after graduation, eligible candidates receive a letter of congratulations in the mail, and degrees are posted on their permanent academic record cards.

Requirements for Additional Master's Degrees or for an Additional Option within a Master's Degree

Students who have earned a master's degree at Cal State L.A. and wish to obtain a subsequent master's degree or to add an additional option to a previously-completed master's degree from this University must complete an approved program of at least 45 quarter units. At least half of the units must be new work not included on the previous degree or option. The remainder can be from the previous degree provided that the courses have been completed within seven years of the award date of the degree and are otherwise eligible for inclusion.

Students who are currently enrolled in a master's degree program at Cal State L.A. may concurrently complete an additional option under the same degree if the department/division and school concerned verify that the additional option requires significantly different knowledge, skill, and course work. The additional option must include a minimum of 23 quarter units of course work that is specific to the option (not included in the previous option) and an appropriate culminating experience (thesis/project or comprehensive examination). An approved program plan for each option is required.

Students who have earned a master's degree at an institution other than Cal State L.A. may petition to apply for an identical degree at Cal State L.A. Students must provide extraordinary justification and receive approval of the department/division and school concerned before they may enter the program.

Additional Graduate and Postbaccalaureate Student Information

Use of Social Security Number

Applicants are required to include their Social Security account number in designated places on CSU applications for admission pursuant to the authority contained in Title 5, *California Code of Regulations*, Section 41201. The Social Security account number is used as a means of identifying records pertaining to the student, as well as identifying the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Cal State L.A. uses the student's Social Security number as the official means of student identification and refers to the number as the student's Student Identification Number. On most student forms, the name is abbreviated as SID.

Study Load

For full-time enrollment certification by the University, graduate students must carry a study load of 12 weighted units of approved prerequisite, corequisite, or graduate program courses (graduate level courses have a weighted factor of 1.5). Upon recommendation of their major department/division and approval by their school graduate dean, students who are enrolled in any of the following courses may be certified as full-time students with a study load of fewer than 12 weighted units: 596, 597, 598, 599, 699, and 900. The maximum study load for students who are pursuing a graduate degree is 16 units per quarter.

The U.S. Immigration and Naturalization Service (INS) requires an F-1 international (visa) graduate student to carry a minimum study load of 8 quarter units of 500-level courses or 12 units of 400-level courses. International students must comply with all University and INS regulations.

Credit by Examination

Graduate students who are in good standing and are enrolled in one or more residence courses may request permission to receive credit for courses by examination. Graduate credit by examination is restricted to eligible 400- and 500-level courses listed in this catalog. It is without unit limit, but does not count as residence credit. Total credit earned for courses and examinations taken in Special Sessions may not exceed the limit established for Special Session study. See **University Requirements for Master's Degrees**.

Before they make take the examination, students must obtain concurrent approval of the chair of the department/division concerned, and the instructor for the course. Forms for approval may be obtained from department/division offices. One copy of the approval to take the examination must be filed with Enrollment Services, Admin. 146, before the fifth week of the quarter in which the examination is taken.

Foreign Language

Reading Examination Fee

Specific academic department and division policies require that graduate students pass the Foreign Language Reading Examination (FL 901). Graduate students who are not registered for courses carrying academic credit during the quarter in which they take the Foreign Language Reading Examination are charged a nonrefundable \$10 fee for taking the examination. Payment of State University, student services, facilities, and Associated Students, Inc. (ASI) fees, or any tuition charges, is not required.

International Programs

Graduate students may be eligible for study abroad under The California State University International Programs. Information about cooperating universities abroad, eligibility requirements, and application procedures appears under *International Programs* in the opening chapter of this catalog.

Scholarships

Scholarships are available for qualified graduate students during the academic year. Most scholarships are awarded to students already in attendance at Cal State L.A. on the basis of academic achievement, campus or community participation, and/or financial need. Some are unique to specific degree programs and are awarded directly by the academic departments/divisions concerned. Students should consult both their academic department/division and the Center for Student Financial Aid about scholarships. In addition, the Associated Students sponsors graduate research scholarships for which application forms are available in University-Student Union 422. A complete list of currently-available scholarships appears in the *Undergraduate Study* chapter of this catalog.

Recognition of Academic Excellence

Special Recognition in Graduate Studies

Students who receive Special Recognition in Graduate Studies have demonstrated superior scholastic achievement by maintaining a grade point average of 3.8 or higher in 80% or more of their required program and have received special recommendation by their department or division.

Alumni Association Certificates of Honor

Awarded to undergraduate and graduate students who are selected by their academic department or division for outstanding achievement in their field of study. Graduate recipients of this award must have completed at least 40% of the units required for their graduate degree program at Cal State L.A. Additional criteria may be added by individual departments or divisions.

Academic Programs: School Based and University-wide

School of Arts and Letters

School of Business and Economics

Charter School of Education

School of Engineering and Technology

School of Health and Human Services

School of Natural and Social Sciences

University Programs

Intercollegiate Athletics

General Education Honors Program

Special Major for the Bachelor's Degree Program

Credit for Prior Experimental Learning (CPEL)

Cooperative Education

Internship in Public Service Program

Interdisciplinary Studies Master's Degree Program

List of Courses

School of

Arts and Letters

OFFICE OF THE DEAN

Music 229

Phone: (323) 343-4001

Fax : (323) 343-6440

E-mail: artslet@calstatela.eduWebsite: <http://www.calstatela.edu/academic/al/>

ADVISEMENT AND OUTREACH CENTER

Music 235

Phone: (323) 343-4015

ADMINISTRATORS:

Carl M. Selkin, Dean

Eri F. Yasuhara, Associate Dean

Irene Stafford, Fiscal/Administration

The School of Arts and Letters is committed to the goal of nurturing humanists and artists, and of providing a broad liberal arts education to all CSLA students. Its seven departments and two interdisciplinary programs offer a variety of learning opportunities, from major, minor, and certificate programs, to general education and elective courses in the humanities and visual and performing arts. The School's co- and extra-curricular activities provide both the university and off-campus communities with opportunities for cultural enrichment, production, and participation. These include art exhibits; musical, dance, and theatrical performances; and lectures and readings—all by students and faculty as well as distinguished scholars, writers, and artists. There are also numerous student organizations devoted to cultural, creative, and intellectual pursuits. Dedicated to ethnic and cultural diversity, with nationally recognized faculty and programs, and with students who have garnered numerous awards, the School of Arts and Letters strives to be the heart and soul of the university.

Students in the School may pursue a variety of undergraduate and graduate degree programs that offer opportunities to study a wide range of subjects, from animation, broadcasting, dance, and design to creative writing, the classics, and voice. Its seven departments are **Art, Communication Studies** (including separate programs in **Speech Communication** and **Radio/Television Broadcasting**), **English, Modern Languages and Literatures, Music, Philosophy, and Theatre Arts and Dance**. The interdisciplinary **Liberal Studies** program offers the Bachelor of Arts degree in two options: a General Option and a Multiple Subject Matter Option, which prepares students for the elementary teaching credential. Students may consolidate various Asia-related courses across campus into an **Asian Studies** minor in the **Asian and Asian American Studies** program. The **Multiple Subject Matter Program** is also offered through the Philosophy department. Students wishing to pursue a high school teaching career may prepare for the **Single Subject credential** through degree programs in the following departments: Art, English, Communication Studies (for the English credential), Modern Languages and Literatures (for French, Japanese, Spanish), and Music. The Music department offers both the Bachelor of Art and Bachelor of Music degrees. The Master of Arts degree is offered in Art, Communication Studies, English, French, Music, Philosophy, Spanish, and Theatre Arts. Students may also choose programs leading to the Master of Fine Arts in Art, or the Master of Music degree. In addition to minor programs in all the major subjects listed above, students may also minor in Chinese (Modern Languages and Literatures Department), Classics (Philosophy Department), Comparative Linguistics (Liberal Studies Program), Creative Writing (English Department), and Women's Studies (Liberal Studies Program).

The departments in the School offer a rich menu of opportunities for nurturing and showcasing student talent and for experiencing the best in presentations by professional artists and distinguished scholars. The **Fine Arts Gallery** presents exhibitions of artwork by established professional artists as well as faculty and students, while the student-run exhibition space, **COMA Gallery**, presents rotating exhibitions of student artwork. The Music Department offers an extensive program of musical events every year, from faculty recitals and group performances to individual student recitals. There are vocal and instrumental groups for every musical inclination, from the Brass Ensemble and Chamber Singers to the Latin-Jazz Ensemble and Symphonic Band; each group performs several times a year both on and off campus. For the past five years, the **Anderson Quartet** has been in residence in the Department. The Department of Theatre Arts and Dance offers comprehensive programs in play and dance production and children's theatre. The University **Dance Ensemble** offers the opportunity for students to perform, choreograph, design costumes, design lighting, and compose sound for dance. There are several performances each year ranging from mini-concerts to full productions, and the latter have been well reviewed in the *Los Angeles Times*. The department also presents six or more theatrical productions during the year, including faculty and student directed workshops and major productions. One of the full-scale productions is the **Teatro Universitario en Español**, a joint effort with the Department of Modern Languages and Literatures that offers students the opportunity to participate in the staging of plays in Spanish and English. Through the Communication Studies Department, students may join the award-winning **Forensics Teams** or help produce the *University Times*, whose editors have established an outstanding record and received top awards and national scholarships. The departments of English and Modern Languages and Literatures also produce literary magazines for students to publish both creative and academic writing in English and other languages. The English Department is the home of the **American Literature Association**, a national coalition of author societies devoted to the study of American writers. Faculty members in the Department of Communication Studies edit the prestigious scholarly journals *Text and Performance Quarterly* and *Journal of Film and Video*. A full program of distinguished speakers (sponsored by the departments of Philosophy, English, Communication Studies, and Modern Languages and Literatures)

provides the entire campus community the opportunity to hear and exchange views with eminent scholars, writers, poets, and critics. The **Chinese** and **Japanese Studies Centers** are affiliated with the Modern Languages and Literatures Department and promote the study and understanding of Chinese and Japanese culture.

The School of Arts and Letters is committed to academic excellence in the arts and humanities. Through its numerous programs, the School prepares students for professional success through a liberal arts education. A broad foundation in intellectual, philosophical and cultural inquiry allows our diverse student body to undertake personal development and to achieve effective participation in a democratic society.

Nationally Accredited Programs in the School of Arts and Letters

Art: National Association of Schools of Art and Design

Music: National Association of Schools of Music

Undergraduate Programs

Art (Department of Art): **B.A. in Art** with Options in Animation, Art Education, Art History, Design, Fashion & Textiles, Studio Arts; Minor in Art; Certificate in Interior Design, Certificate in Fashion Design, Certificate in Fashion Merchandising

Asian Studies (Interdisciplinary Program in Asian and Asian American Studies, School of Arts and Letters): Minor

Chinese (Department of Modern Languages and Literatures): Minor

Classics (Department of Philosophy): Minor

Comparative Linguistics (Interdisciplinary Program in Liberal Studies): Minor

Creative Writing (Department of English): Minor

Dance (Department of Theatre Arts and Dance): **B.A.** in Theatre Arts and Dance, Option in Dance

English (Department of English): **B.A.** in English, General Option and Single-Subject Teaching Option; Minor in Creative Writing, Minor in English

French (Department of Modern Languages and Literatures): **B.A.** in French, Single-Subject Matter Program; Minor in French

Japanese (Department of Modern Languages and Literatures): **B.A.** in Japanese, Single-Subject Matter Program; Minor in Japanese

Liberal Studies (Interdisciplinary Program in Liberal Studies): **B.A.** in Liberal Studies, General Option and Multiple Subject Credential Option; Interdisciplinary Minor in Comparative Linguistics; Interdisciplinary Minor in Women's Studies

Music (Department of Music): **B.A.** in Music, General Option, Music History Option, Teaching Option, Single-Subject Matter Program; **B.Mus. in Music**, with Options in Composition, Jazz Studies, Vocal Performance, Instrumental Performance, and Keyboard Performance; Minor in Music

Philosophy (Department of Philosophy): **B.A. in Philosophy**, General Option, Multiple Subject Credential Option, Prelaw Option; Minor in Classics; Minor in Philosophy, General Option and Prelaw Option

Radio & Television Broadcasting (Department of Communication Studies): **B.A.** in Radio and Television Broadcasting, with Options in Animation, Broadcast Journalism, and Telecommunications and Film

Spanish (Department of Modern Languages and Literatures): **B.A.** in Spanish, Single Subject Matter Program; Minor in Spanish

Speech Communication (Department of Communication Studies): **B.A.** in Speech Communication, General Option, Single Subject Credential Option; Minor in Speech Communication

Theatre Arts (Department of Theatre Arts and Dance): **B.A.** in Theatre Arts and Dance, Theatre Arts Option; Minor in Theatre Arts and Dance

Women's Studies (Interdisciplinary Program in Liberal Studies): Minor

Graduate and Postbaccalaureate Programs

Art (Department of Art): **Master of Arts Degree** in Art, with specializations in Art Education, Art History, Design, Studio Arts; **Master of Fine Arts Degree** in Art, with specializations in Design and Studio Arts

Communication Studies (Department of Communication Studies): **Master of Arts Degree** in Communication Studies, with Options in Telecommunications and Film, and in Speech Communication

English (Department of English): **Master of Arts Degree** in English, with Options in Composition, Rhetoric, and Language; in Creative Writing; and in Literature

French (Department of Modern Languages and Literatures): **Master of Arts Degree** in French

Music (Department of Music): **Master of Arts Degree** in Music, General Option, Music Education Option, Musicology Option; **Master of Music Degree**, with Options in Composition, Commercial Music, Choral Conducting, Instrumental Conducting, Keyboard Performance, Vocal Performance, Instrumental Performance

Philosophy (Department of Philosophy): **Master of Arts Degree** in Philosophy, Certificate in Teaching Critical Thinking

Spanish (Department of Modern Languages and Literatures): **Master of Arts Degree** in Spanish

Theatre Arts (Department of Theatre Arts and Dance): **Master of Arts Degree** in Theatre Arts

Courses in Arts & Letters (AL)

101 introduction to Higher Education in Arts and Letters (2)

An Introduction to higher education for students new to CSLA. This course is especially designed for students majoring in degrees offered by the School of Arts and Letters. Graded CR/NC.

School of

Business and Economics

OFFICE OF THE DEAN

Simpson Tower F124
 Phone: (323) 343-2800
 E-mail: deansbe@calstatela.edu
 Website: http://sbela.calstatela.edu

SCHOOL ADVISEMENT CENTER

Salazar Hall C256B
 Phone: (323) 343-2810 undergraduate
 (323) 343-5156 graduate
 Fax: (323) 343-5480
 E-mail: ltrevil@calstatela.edu

The major role of the School of Business and Economics is to equip men and women with the intellectual and professional tools needed to assume responsible positions in business, industry, education, government, and social service organizations. The preparation offered includes a basic understanding of the entire social, economic, and physical environment of the urban community, of which business institutions are an integral part. Further, the School provides a substantial theoretical and technical background in the underlying fields of knowledge dealing specifically with functional areas in business.

The School of Business and Economics offers undergraduate degree programs in business administration, computer information systems, and economics as well as several minors and certificate programs. Graduate programs are described on the next page.

Accreditation

The School of Business and Economics is nationally accredited, at both graduate and undergraduate levels, by AACSB - The International Association for Management Education.

Office of Publications (Business Forum)

The Publications Office produces all school publications including annual reports, alumni newsletters, various pamphlets and brochures, working papers, and news releases.

The School of Business and Economics' Publications Office publishes a quarterly, refereed journal, Business Forum. The journal is directed to a national reading audience of scholars, business executives, and public administrators, and includes articles by representatives from the academic, government, and business sectors. Business Forum is the keystone of the school's effort to achieve effective two-way communication between business and Cal State Los Angeles.

All departmental and program information will be found in the corresponding section under **Academic Programs: Department, Division, and Interdisciplinary Program-based.**

The Faculty

School Emeriti Faculty: Nancy J. Billett, Charles J. Inacker, MaryLynne Knutson.

Undergraduate Programs

The School offers undergraduate programs leading to bachelor's degrees in business administration, computer information systems, and economics, and minors in basic business and economics. Several certificate programs are offered, also. Students are required to complete lower division courses before taking upper division courses.

Bachelor of Science Degree in Business Administration

A total of 186 units is required for the Bachelor of Science degree in Business Administration, of which 98-106 units are in the major. All degree candidates must complete 72 units in courses outside the School of Business and Economics.

Requirements for the Major (100-108 units)

All options require a common core of 72 units of lower and upper division courses in the School of Business and Economics. In addition, each student with upper division standing completes one of the following options:

<i>Option</i>	<i>Department or Program</i>
Accounting	Dept. of Accounting
Administrative Mgmt	Dept. of Management
Business Arts–Prelegal	Dept. of Finance and Law
Business Economics and Statistics	Dept. of Economics and Statistics
Entrepreneurship	Prog. in Entrepreneurship
Finance	Dept. of Finance and Law
Human Resources Mgmt	Dept. of Management
International Business	Prog. in International Business
Labor Relations	Dept. of Economics and Statistics
Marketing	Dept. of Marketing
Office Systems	Dept. of Information Systems
Production and Operations Mgmt	Dept. of Management
Real Estate	Dept. of Finance and Law
Retailing	Department of Marketing
Special Business	Interdisciplinary Progs. in Business

Core Requirements (72 units)**Lower Division Required Courses (28 units)**

ACCT	200AB	Principles of Accounting (4, 4)
CIS	100	Business Computer Systems (4)
ECON	201, 202	Principles of Economics I, II (4, 4)
ECON	209	Applied Business and Economic Statistics I (4)
FIN	205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT	300	Managerial Accounting (4)
CIS	301	Management Information Systems (4)
ECON	309	Applied Business and Economic Statistics II (4)
FIN	303	Business Finance (4)
MGMT	301	Business Communications (4)
MGMT	306	Production and Operations Management (4)
MGMT	307	Management and Organizational Behavior (4)
MGMT	308	Business Responsibilities in Society (4)
MGMT	497	Integrated Decision Making in Business (4)
MKT	304	Principles of Marketing (4)

Select one from the following as specified by the student's option:

ECON	303	Money, Banking, and the Economy (4) or
ECON	310	Managerial Economics (4)

Leadership Teamwork Requirement

Additionally, each student must complete a 4-unit skills course, which includes leadership and teamwork skills, as specified by the student's option.

Options (28–36 units, including a 4 unit skills course)

All departmental and program information will be found in the corresponding section in the **Academic Programs: Department, Division, and Interdisciplinary Program-based** chapter which is the next chapter in this catalog.

Graduate and Postbaccalaureate Programs

The school offers programs leading to master's degrees in six fields.

The **Master of Science degree in Accountancy**, is designed to provide specific professional preparation in the options of Business Taxation, Financial Accounting, Information Systems, and Management Accounting. See the **Department of Accounting** section in the next chapter for further information.

The **Master of Science degree in Business Administration**, primarily for holders of a baccalaureate in business, provides options designed to meet specific professional objectives in **Business Economics, Finance, International Business, Management, and Marketing**. Refer to the sections for those departments and programs in the next chapter for further information.

The **Master of Science degree in Information Systems**, meets the advanced education needs of IS professionals whose career goals are primarily professional, rather than the MBA's managerial goals. See the **Department of Information Systems** section in the next chapter for further information.

The **Master of Business Administration (MBA)** degree offers professional preparation for management positions in business and industry. It is designed for holders of a baccalaureate in other academic fields as well as in business. See the section on **Interdisciplinary Business Programs** in the next chapter for more information.

The **Master of Arts degree in Economics** provides students the opportunity for advanced study of economic theory and research, in preparation for careers in industry, government, and education, or for further graduate study. See

the **Department of Economics and Statistics** section in the next chapter for more information.

The **Master of Science degree in Health Care Management** is designed to prepare people in the health care industry to meet the increasing demands placed on middle- and upper-level managers in large metropolitan health care facilities. The program goal is achieved through interdisciplinary courses primarily in the School of Health and Human Services and the School of Business and Economics. For more information, see the section for the **Department of Management** in the next chapter.

Master of Science Degree in Business Administration

This is a specialized degree program permitting concentration and research in one of the following options: Business Economics, Finance, International Business, Management, Management Information Systems, and Marketing.

Admission to the Program

The application must include three letters of recommendation from either employers or academicians. In addition to completing the 52 quarter units of acceptable basic business courses listed above, applicants must have an approved graduate degree program on file in the School Advisement Center.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 41 units in 500-level courses.

Required Core (24-27 units)

- ACCT 503 Quantitative Approach to Managerial Decisions (4)
- CIS 504 Management Information Systems (4)
- ECON 502 Economic Analysis and Business Operations (4)
- MGMT 501 Administrative Behavior and Systems Management (4)
- MGMT 594 Policy Integration and Strategy (3)
- MGMT 598 Graduate Directed Study (1)

Additional 598 courses are to be taken for 4-7 units selected with advisor approval.

Thesis (5 units)

- BUS 599AB Thesis (2, 3)

Options (13-16 additional units)

All departmental and program information will be found in the corresponding section in the **Academic Programs: Department, Division, and Interdisciplinary Program-based** chapter.

Charter School of Education

OFFICE OF THE DEAN
King Hall D2069
Phone: (323) 343-4300

OFFICE OF THE ASSOCIATE DEAN FOR CURRICULUM AND ASSESSMENT
King Hall D2070
Phone: (323) 343-4303

OFFICE OF THE ASSOCIATE DEAN FOR STUDENT SERVICES
King Hall D2078
Phone (323) 343-4320
Website : www.calstatela.edu/csoe

The Charter School of Education offers programs leading to the Bachelor of Science degree in Rehabilitation Services, to advanced degrees and to certification for specified fields of professional development in California public schools and other public and private agencies. Because the campus is located in the heart of metropolitan Los Angeles, the Charter School of Education programs reflect concern with the problems and challenges of urban education with particular emphasis on bilingual/cross cultural issues.

Accreditation

The Charter School of Education is nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). All credential programs are approved by the California Committee on Accreditation. Programs in the school are also nationally accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CAREP), the Council on Rehabilitation Education (CORE), and the National Association of Psychologists (NASP).

Degrees Offered

The Charter School of Education offers the following degrees: **Doctor of Philosophy, Master of Arts, Master of Science** and Bachelor of Science which are briefly described below:

Doctor of Philosophy Degree in Special Education

offered jointly with the University of California, Los Angeles, provides preparation for leadership positions in higher education and the public schools as well as preparation for a career in scholarly research.

Master of Arts Degree in Education with the following options:

- **Computer Education and Technology Leadership** option prepares computer education specialists to direct school computer laboratories; select, design, and evaluate instructional software; teach computer programming/problem solving to children; and fill leadership roles in school districts in computer applications in education.
- **Educational Foundations** option with concentrations in social and psychological foundations, is for educators interested in the theoretical bases of education.
- **Elementary Teaching** option is designed to improve elementary teaching competence, with several areas of concentration, and to develop skills for continuing self-directed study.
- **Middle and Secondary Curriculum and Instruction** option is designed to meet the challenge of educational excellence through the development of instructional leadership skills for middle, secondary and postsecondary educators.

- **New Media Design and Production** option prepares specialists for elementary and secondary institutions who combine skills in computer technology application with advanced video and multimedia techniques to enhance the learning experience of students at all levels.
- **Reading** option is designed to provide proficiency in the specialized teaching of reading/language arts.

Master of Arts Degree in Educational Administration

prepares educators with an understanding of American urban life, provides them with the research skills needed to direct, conduct, analyze, and evaluate research projects, and presents opportunities for in-depth study of administering, managing, supervising, coordinating, and directing public, private, and parochial schools.

Master of Arts Degree in Special Education

is designed to prepare personnel to provide educational services to individuals who, because of physical, behavioral, and/or mental characteristics, require special instruction or services. Specialized preparation is offered for teachers of these exceptional individuals.

Master of Arts Degree in Teaching English to Speakers of Other Languages (TESOL)

is intended to prepare students for teaching in a variety of situations, kindergarten through adult level, both in the U.S. and abroad. The program emphasizes language acquisition processes and the implications for second language teaching in preparing students for many teaching situations: English as a second language, as a foreign language, and for special purposes.

Master of Science degree in Counseling

with options in:

- **Applied Behavior Analysis;**
- **Counseling and Educational Leadership*;**
- **Marriage, Family, and Child Counseling*;**
- **Rehabilitation Counseling;**
- **School Psychology;**

is designed to prepare graduates to function as professionals in these areas.

** Includes school counseling focus*

Note: Students entering graduate education programs must meet specific requirements set forth for each program in addition to University requirements for admission to graduate study.

Restrictions on Credit Earned in Variable Unit Courses

All Charter School of Education master's degree programs are subject to the following credit restrictions:
Limit of **12 units** from 499, 597, and 598 in programs **without** a thesis or project.
Limit of **15 units** from 499, 597, 598, and 599 in programs **with** a thesis or project.

Bachelor of Science degree in Rehabilitational Services

This degree prepares students who work in various educational settings where they will advance the independence of individuals with rehabilitation needs in both workforce and the community.

Credential Programs

University programs have been approved for the following credentials and areas of specialization.

Teaching Credentials:

- **Multiple Subject CLAD/BCLAD**
- **Single Subject CLAD/BCLAD**

Specialist Credentials

- **Adapted Physical Education**
- **Early Childhood Special Education***
- **Mild/Moderate Disabilities***
- **Moderate/Severe Disabilities***
- **Physical and Health Impairments***
- **Reading/Language Arts**
- **Visual Impairments***

**Note Under the new credential structure, these are now basic teaching credentials. (12.5%)*

Services Credentials

- **Administrative Services** (Preliminary and Professional)
- **Clinical-Rehabilitation Services** (Audiology, Language, Speech and Hearing (with Special Class Authorization), Orientation and Mobility)
- **Health Services** (School Nurse)
- **Pupil Personnel Services** (School Counseling and Child Welfare and Attendance, School Psychology and Child Welfare and Attendance, School Psychology)

Note! Because credential programs described in this publication are subject to change without notice, students are urged to seek current information concerning new credential requirements from the appropriate division in the Charter School of Education.

Candidates seeking additional authorization on prior credentials must seek advisement from the appropriate division about applicability of current courses to those requirements. Advisement of students working toward a credential is provided by both their major department and each of the Charter School of Education Divisions. General information about the Charter School of Education programs is available in the Office of Student Services, King Hall D2078.

Recommendation for teaching credentials is contingent upon satisfaction of all requirements specified in each area.

Admission and Other Requirements

Admission to Master's Degree and Credential Programs in Education

Students entering graduate programs in education must meet University requirements for admission to graduate study and additional requirements set forth for each program. Admission to the University does not automatically admit students to credential or postbaccalaureate programs in the Charter School of Education. Formal application is required for admission to a specific degree or credential program.

Teaching credential application procedures are described in the appropriate section of the next chapter, **Academic Programs: Department, Division and Interdisciplinary Program-based**, within the divisional section offering preparation for that credential, namely:

- Administration and Counseling
- Curriculum and Instruction
- Educational Foundations and Interdivisional Studies
- Special Education

Postbaccalaureate Year

State of California credential requirements include a fifth year of study completed after the baccalaureate. Students may elect to complete all or part of their professional requirements in the fifth year, pursue a master's degree, or follow a planned course of study approved by their adviser. All students must plan an approved program with an adviser.

General Information about Professional Clear Teaching Credentials

All students who desire University recommendation for completion of the professional clear credential must be admitted to Cal State L. A. and must satisfy any writing or speech requirements required of all postbaccalaureate students. They must also apply for admission to the credential program. Complete admission procedures are listed in the *Admission to Credential Programs* section.

Definition of the Fifth Year for Professional Clear Teaching Credentials

The fifth year, comprised of a minimum of 45 postbaccalaureate quarter units selected with adviser assistance, may consist of:

- Completion of requirements for the preliminary credential, or
- completion of requirements for the professional clear credential, or
- work toward another baccalaureate, or
- an advanced credential, or
- a master's degree, or
- a program of courses designed to improve the applicant's teaching competencies.

Residence Requirement

Applicants who possess a master's degree from an accredited institution outside California or an advanced credential based on a full fifth year of postbaccalaureate study (45 quarter units) are not subject to residence requirements for University recommendation. Applicants with a master's degree or an advanced credential from a California institution are referred to their parent institution for recommendation. All other applicants must complete a minimum of 16 quarter units in residence at Cal State L.A.

Criteria for University Recommendation for Professional Clear Credential

- Completion of application procedures for admission to the University and to fifth year credential program.
- Completion of an approved fifth year program.
- Satisfaction of all legal and University credential requirements.

Procedures

- Apply for admission to Cal State L. A. and to the Charter School of Education credential programs.
- Plan a fifth year program with an adviser.

The program plan is filed and used for verification of credential requirements at program completion. The program is checked by a credential analyst for satisfaction of criteria, applicability of transfer work, etc.

Students receive University recommendation following application and verification of completion of all requirements for the clear credential.

School of

Engineering and Technology

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Raymond B. Landis, Dean
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Phone: (323) 343-4500

ASSOCIATE DEAN'S OFFICE
Ethan B. Lipton, Associate Dean
Engineering and Technology A237
Phone: (323) 343-4510

School Office Website: <http://www.calstatela.edu/academic/engr/tmp/et/>
School Office E-mail: et@calstatela.edu

Engineering and technology contribute in many ways to the welfare, technological progress, and defense of the nation by developing methods for converting raw materials and power sources into useful products. Engineers and technologists also develop scientific equipment to probe outer space, the human body, and the ocean depths. They design, plan, and supervise the construction of buildings, highways, rapid transit systems, and water supplies and involve themselves in areas of solid state electronics, computers, electrical equipment, communications, controls, and power distribution systems. They also enter the fields of mechanics, thermal science, machinery design, instrumentation, and the development and transmission of power.

The School of Engineering and Technology offers programs leading to the Bachelor of Science degree in Civil, Electrical, or Mechanical Engineering or with a Special Option; Bachelor of Science in Industrial Technology, with options in Aviation Administration, Printing Management, and Production Technology; Bachelor of Science in Fire Protection Administration and Technology; Bachelor of Arts in Industrial Arts; and Bachelor of Vocational Education in Vocational Arts. A minor is available for students majoring in other fields.

Undergraduate Programs

Engineering Bachelor of Science Degrees in Engineering

The Bachelor of Science degree may be earned in Civil Engineering, Electrical Engineering, Mechanical Engineering, or in Engineering with Special Option.

Programs leading to the Bachelor of Science degree in Civil, Electrical, or Mechanical Engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). All accredited programs are required to provide the following minimum level of instruction: one year of mathematics and basic sciences; one and one-half years of engineering science and design (engineering topics); and one-half year of humanities and social sciences.

The Bachelor of Science degree with Special Option, which is not accredited by EAC/ABET, is a program that allows students to prepare for innovative careers in engineering through interdisciplinary combinations of course work in areas such as manufacturing engineering.

Requirements for the Major

The total number of units required for each Bachelor of Science degree in Engineering differs slightly with the degree chosen, as shown below. All students complete a required basic program of lower division courses, followed by specific requirements and technical electives appropriate to their selected degree and individual professional objectives.

Students consult a faculty adviser before registering for classes in their first quarter. They are then required to see their adviser before registering for each subsequent quarter to check for completion of prerequisites and granting of

approval to register. Students are expected to develop working relationships with their advisers, and are expected to design elective programs with adviser consultation. They must complete all required lower division course work and obtain upper division advisement before registering for elective courses.

Civil Engineering

The degree and major require a minimum of 194 units including 146 in the major: 76 in lower division required courses, 53 in upper division required courses, and 17 in upper division electives.

Electrical Engineering

The degree and major require a minimum of 198 units including 150 in the major: 63 in lower division required courses, 48 in upper division required courses, 22 in upper division EE electives (20 lecture, 2 lab), 4 in upper division MATH electives, and 13 in an upper division specialization.

Mechanical Engineering

This degree and major require a minimum of 194 units including 146 in the major: 68 in lower division required courses, 51 in upper division required courses, and 27 in upper division electives.

Special Option

The degree and major with this option require a minimum of 200 units including 152 in the major: 68 in lower division required courses, 27 in upper division required courses, and 57 units in upper division electives.

In addition, all degrees require the completion of the general education program for engineering majors. Students should consult their major department to obtain a copy of these requirements.

Transfer Students

The Engineering program is designed for students who transfer from a California community college as well as those who begin their work at Cal State L.A. Students at other colleges who are considering transferring to Cal State L.A. are urged to consult a department adviser for complete details and for program counseling.

In evaluating transfer courses, the engineering departments allow no subject credit for upper division work taken at another institution in which the grade of D or its equivalent was earned. Lower division courses are not subject to this restriction.

Bachelor of Science Degree in Engineering with Special Option

The Bachelor of Science degree with Special Option, which is not accredited by EAC/ABET, is a program which allows students to prepare for innovative careers in engineering through interdisciplinary combinations of course work in areas such as manufacturing engineering.

Requirements for the Major (152 units)**Lower Division Required Courses (68 units)**

CS 290	Introduction to FORTRAN Programming (2)
CHEM 101	General Chemistry I, (5)
ENGR 100	Introduction to Engineering (1)
ME 103	Introduction to Mechanical Design (3)
ENGR 201	Statics (4)
ENGR 204	Circuit Analysis I (4)
ENGR 205	Strength of Materials I (4)
ENGR 207	Materials Science and Engineering (4)
ENGR 210	Matrix Algebra for Engineers (2)
ENGR 211	Statistics and Probability for Engineers (2)
EE 211	Electronic Circuits Laboratory (1)
MATH 206-209	Calculus I-IV (4 each)
MATH 215	Differential Equations (4)
PHYS 201-204	General Physics (4 each)

Upper Division Required Courses (27 units)

CE/ME312	Strength of Materials Laboratory I (1)
EE 210	Electrical Measurements Laboratory (1) or
ME 310	Engineering Measurements Laboratory (1)
ENGR 300	Economics for Engineers (4)
ENGR 301	Ethics and Professionalism in Engineering (1)
ENGL 306	Technical Writing (4) or
TECH 400	Written Communication Skills for Industrial Technology (4)

Select 16 units from following:

CE/ME 303	Fluid Mechanics I (4)
CE/ME320	Dynamics I (4)
EE 304	Electric Machines (4)
EE 336	Analog Electronic Circuits (4)
ME 306	Heat Transfer I (4)
ME 326A	Thermodynamics I (4)

Electives (57 units)

With prior approval of permanent adviser and department chair, select a grouping of courses and laboratories with a specific objective. These may be chosen from the interdisciplinary lectures and laboratories and from an appropriate combination of approved courses in engineering, technology, mathematics, the natural sciences, business, and economics.

Manufacturing Engineering**Emphasis Within Special Option**

An emphasis in manufacturing engineering within the special option has been established. Required and elective courses (57 units) in this option will be taken from the following group of courses in Engineering, Technology and Management. Manufacturing engineers are concerned with the transformation of raw materials into industrial and consumer goods. They are employed by a wide variety of manufacturing industries including aerospace, appliance, automotive, electronics, machine tools, and semiconductor.

Students interested in manufacturing engineering are advised to consult the associate dean for further information.

Required Courses (29 units)

ME 323	Machine Design I (4)
ME 327	Manufacturing Processes (4)
ME 328	Introduction to Metallurgy (4)
EE 360	Control Systems Theory I (4) or
ME 410	Control of Mechanical Systems (4)
EE/ME481	Introduction to Robotics (4)
ME 491	Robotics Lab (1)
ME 428	Automation and Computer-Aided Manufacturing (4) or
TECH 484	Automated Manufacturing Systems (4)
TECH 160	Introduction to Metalworking (3)
ME 329	Metallography laboratory (1)

Management Electives (12 units)

Select 12 units from the following with attention to prerequisites:

MGMT 306	Production and Operations Management (4)
MGMT 460	Case Studies in Production and Operations Management (4)
MGMT 463	Motion and Time Study (4)
MGMT 464	Production and Inventory Management (4)
MGMT 467	Quality Control (4)
MGMT 496	Operations Research (4)

Technical Electives (16 units)

Select 16 units from the following with attention to prerequisites:

EE 336	Electronics (4)
EE 345	Microcomputer Programming (4)
EE 372	Digital Electronics (4)
EE 445	Microprocessor Interface Design (4)
ME 414	Machine Design II (4)
ME 422	Optimization of Mechanical Engineering
TECH 325	Industrial Controls (3)
TECH 327	Microprocessors (3)
TECH 411	Tool Design (3)
TECH 425	Programmable Controls (3)

Technology

The Department of Technology offers undergraduate programs in several areas designed to prepare students for careers in industrial technology and technology education. Specific programs are in production technology, printing management, aviation administration, fire protection administration, and technology education. These programs allow students to develop expertise in specific technical areas including: automated manufacturing and robotics, computer aided design (CAD), computer aided manufacturing (CAM), electronics, design/drafting, graphic communications/printing, manufacturing, and power, energy and transportation. Graduates of these programs are employed in a wide range of careers including managers, management representatives, administrators, production

supervisors, trainers, technical support specialists, and technology educators. The department also offers several upper division certificate programs to provide further technical depth.

Advisement

Each of the programs in the Department of Technology has an adviser that can assist students in developing their programs. Every new student must see an adviser before beginning to take classes. Transfer students are encouraged to begin advisement while still enrolled at the community college to ensure a smooth transition.

All advisement is on an appointment basis. Please call (323) 343-4550 for an appointment.

Transfer

Many students transfer into the Department of Technology after attending community colleges. The advisers are prepared to explain the transfer process and create a degree program based on a combination of transfer and Cal State L.A. courses.

Some community college programs have structured 2+2 agreements with our programs. 2+2 programs provide for more efficient transfer but require that specific courses be taken at each institution. Please consult your college catalog, counseling office, or call our advisers at (323) 343-4550 for details.

Graduate and Postbaccalaureate Programs

The objective of the Master of Science degree programs in Civil, Electrical, and Mechanical Engineering is to prepare students for employment in design, research, and development positions in industry, for positions as engineering teachers, and for further study toward doctoral degrees.

The Department of Technology offers a Master of Arts degree in Industrial and Technical Studies. The purpose of this degree is to prepare students for technical management roles in industry, leadership in technology education or the public sector, and/or for further study toward a doctoral degree. In addition to the graduate degree program, the Department of Technology also offers a credit certificate in Electronics Technology.

Degrees Offered

The school offers graduate programs leading to master's degrees in the following four fields.

- Master of Science degree in Civil Engineering
- Master of Science degree in Electrical Engineering
- Master of Science degree in Mechanical Engineering
- Master of Arts degree in Industrial and Technical Studies

Admission to Engineering Programs

In addition to University requirements for admission to graduate study, applicants must possess the equivalent of the Bachelor of Science degree currently specified by Cal State L.A. for the field of engineering in which they wish to specialize and a 2.75 grade point average in the last 90 quarter units

attempted in the undergraduate program. Applicants who do not meet the above admission requirements may be admitted at the discretion of the department in which the proposed graduate degree is offered. Applicants who earned less than a 2.5 grade point average in the last 90 units attempted in undergraduate status will not be admitted to a master's degree program in engineering without clear and compelling evidence of current capacity for satisfactory performance in such a program.

Consultation with a department graduate adviser is required before any courses are attempted to determine if deficiencies exist in undergraduate preparation. Students should provide transcripts of all undergraduate work, which will be retained by the adviser. MATH 402A, entitled *Advanced Mathematics for Engineers and Physicists I*, is required for all graduate programs in engineering if not previously completed.

Admission to the Industrial and Technical Studies Program

In addition to University requirements for admission to graduate study, applicants must possess a Bachelor's degree in a field related to technology. Applicants who do not possess a related degree may take a series of prerequisite courses to qualify for admission. Applicants who earned less than a 2.5 grade point average in their last 90 (quarter) units attempted may be admitted on probationary status. The program advisor can explain the procedures required for this exception to take place. All students must see the advisor before enrolling in any courses in the program.

List of Courses (ENGR) – Undergraduate Level

Lower Division Courses

100 Introduction to Engineering (1)

Introduction to profession of engineering; ethical and legal aspects of engineering profession; engineering design process; communication and computer skills in engineering. Laboratory 3 hours. Graded CR/NC.

103 Design Graphics (3)

Prerequisites: MATH 103; one year high school mechanical drawing or TECH 110. Role of engineer, work of engineer, design process; problem identification, analysis of design data, pictorial presentation, design problems; spatial relationships, empirical equations, nomography. Lecture 2 hours, laboratory 3 hours.

154 Special Topics in Engineering (1-4)

Prerequisites: Instructor consent and as needed for specific topic. Current topics of special interest to students in engineering, as announced in Schedule of Classes. May be repeated to maximum of 8 units.

201 Statics (4)

Prerequisites: MATH 207, PHYS 201. Fundamental principles of statics, resolution and composition of forces, algebraic and graphic solutions, friction, center of gravity, moment of inertia.

204 Circuit Analysis I (4)

Prerequisites: MATH 208, PHYS 203. Electric circuit analysis, transient and steady state; and introduction to frequency response.

205 Strength of Materials I (4)

Prerequisite: ENGR 201. Stresses and strains under axial, shearing, and torsional forces; flexural stresses and deflections of simple beams; columns; and combined stresses.

207 Materials Science and Engineering (4)

Prerequisites: CHEM 101, MATH 206, PHYS 201. Understanding structure and fundamental atomic and molecular mechanisms of engineering materials, atom and electron movement, physical and mechanical properties; overview of engineering materials, semiconductors, metals, ceramics, polymers, and composites.

208 Statics and Strength of Materials (4)

Prerequisites: MATH 207, PHYS 201. Principles of statics, force systems and equilibrium, structures, machines, distributed force, centroid, moment of inertia, stresses, strains, and deformations under axial, torsional, and bending loads. For Electrical Engineering students only.

210 Matrix Algebra for Engineers (2)

Prerequisites: MATH 208, PHYS 201. Introduction to calculations using vectors; matrix operation; solution of linear simultaneous equations; coordinate transformation; application to engineering problems.

211 Statistics and Probability for Engineers (2)

Prerequisites: MATH 208, PHYS 201. Introduction to calculations using probability distributions and densities; concepts in statistics; application to engineering problems.

220 Our Oceans and Our Future (4)

The engineering aspects of ocean environment, its effect on humankind, and our future. Intended for all majors. GE B3

250 Impact of Technology on Society (4)

Role of technology as both solver and creator of technical and social problems. Social implications of technological progress. Intended for all majors. GE E

Upper Division Courses

300 Economics for Engineers (4)

Basic economic concepts, relationships between economic and engineering problems, role of interest and capital in cost minimization, analysis of financial statements, original and alternative investments, capital depreciation and replacement problems.

301 Ethics and Professionalism in Engineering (1)

Prerequisite: Senior standing in engineering. Ethical and professional standards in engineering profession; impact of engineering profession on society; professional registration and liability; government regulations and legal responsibilities.

**358 Environment, Earth Systems and Technology (4)
(also listed as GEOG 358)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Consider the role of technology in the changing relationships between human societies and their environment; studies the impact of the agricultural, industrial and information revolutions on natural systems and sustainability.

**383 Ancient and Modern Technology (4)
(also listed as TECH 383)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient technology and technological thought and its relationship to modern science and technological thought.

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

454 Special Topics in Engineering (1–4)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced engineering subjects upon approval of instructor.

490 Engineering Application of Digital Computers (4)

Prerequisites: CS 290, MATH 215. Use of FORTRAN programming and numerical solution techniques to solve engineering problems of various selected types.

499 Undergraduate Directed Study (1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with the sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Graduate Level Courses (ENGR)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

597 Graduate Research (1–5)

Prerequisites: Instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Graded CR/NC.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit.

599 Thesis (1–4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, school approval of the topic prior to registration. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/NC.

School of

Health and Human Services

OFFICE OF THE DEAN

Fine Arts 133

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FAX: (323) 343-5598

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Luz Solis, Financial Manager

E-mail: lsolis@cslanet.calstatela.edu

The School of Health and Human Services is committed to addressing critical urban issues within an interdisciplinary and multicultural framework that respects and promotes the integration of teaching, research and public service. The School places emphasis on being student-centered, faculty- and staff-focused and community-involved. Faculty prepare both undergraduate and graduate students to assume positions that will contribute to the health and wellness of children, adults, families, and communities. Health is defined within the school as a multifaceted concept which includes physical, spiritual, biological, psychological, and socioeconomic components. Each program has a unique approach to human services while also addressing this broad concept of health.

The academic departments within the School are:

- Child and Family Studies
- Communication Disorders
- Criminal Justice
- Health and Nutritional Sciences
- Kinesiology and Physical Education
- Nursing
- Social Work

Academic programs, which are available in these departments, include audiology, child development, community health, criminal justice, criminalistics, dietetics, environmental health, exercise science, family studies, nursing (including advanced practice), nutritional science, occupational health and safety, parenting, physical education, social work, and speech-language pathology.

The School is also home to the Edward R. Roybal Institute for Applied Gerontology, which focuses on urban issues and reaches out to multiethnic and multicultural programs within the Greater Los Angeles community. Other programs and institutes in the School include American Humanics, Inc. (a program in Youth Agency Administration), the Institute for Nursing and the Child Abuse and Family Violence Institute. In addition to the School-based certificate programs listed below, the following are offered by departments and programs within the School: alcohol and drug problems, environmental health science, numerous nurse practitioner certificates (undergraduate and post masters') and youth agency administration.

Emeriti Faculty

Family Studies and Consumer Sciences: Patricia Wright Ellis, Sumiye N. Onodera, Lilly Shen.

Home Economics: Thelma Graves, Maxine L. Miller, Naomi P. Norton, Lois M. Rhinesperger.

Advisement and Outreach Center

Fine Arts 238

(323) 343-5500

FAX: (323) 6302

E-mail hhsadve@calstatela.eduhttp://www.calstatela.edu/academic/hhs_adv.htm.

The Advisement and Outreach Center for the School of Health and Human Services works with all first-time freshmen and transfer students.

The Center's services include:

- initial program planning
- evaluation of transfer work
- pre-nursing and pre-social work advisement
- petitions for general education and excess units
- graduation checks
- first-time disqualifications
- trouble shooting.

Undergraduate Programs

Certificate Programs

The three credit certificate programs listed below are interdisciplinary in nature and are open to interested students in all majors throughout the campus. These programs are administered by the School of Health and Human Services.

Certificate Program in Applied Gerontology

The School of Health and Human Services offers a credit certificate program in Applied Gerontology designed to enhance the preparation of individuals interested in health and human service disciplines to increase their knowledge, skills, and effectiveness as practitioners with older populations, particularly the multiethnic and multiracial elderly. The program is designed for a wide range of students including those seeking a career change and those in the field seeking to enhance their promotional opportunities. A total of 28 units is required, including 16 units of core courses, 4 units of field experience, and 8 units of electives.

Admission to the program requires upper division standing (*completion of 90 quarter units*) and the consent of a faculty adviser in the student's major department or division (or the coordinator of the certificate program for students whose major is undeclared).

Requirements for the Certificate (28 units)

Required Core Courses (16 units)

BIOL 384N	Biology of Aging (4)
SOC 323	Socialization: Maturity and Aging (4) or
SOC 450	Sociology of Aging (4) or
PSY 362	Psychological and Psychosocial Developmental Stages in Maturity and Aging (4)
SW 450	Crosscultural Practice with Aging Populations (4)
SW 465	Programs and Policies Related to the Elderly (4)

Required Field Experience/Internship (4 units)

(Three units fieldwork; one unit seminar)

Placement is arranged for each discipline through the offering department or division. Students in schools other than Health and Human Services will arrange field experience with their major adviser and the certificate program coordinator, as appropriate.

Electives

Select 8 units from following with the Certificate adviser approval

COUN 405B, 479
ICP 483
NTRS 451
NURS 346
*PSY 362
SW 371B

Or other gerontology related courses including all Theme F Courses (ANTH 325, 335, NTRS 351, KPE 363, POLS 330, ENGL 383, ML 382, PHIL 373, RELS 325).

* If not taken in the core

Certificate Program in Child Maltreatment and Family Violence

The School of Health and Human Services offers an interdisciplinary credit certificate program designed to provide individuals in health and human service disciplines or other related fields with expanded knowledge and formalized education, multidisciplinary training, and field experience in child abuse and domestic violence. Course work includes

theoretical, conceptual, and practical experiences leading to a multidisciplinary view of the relevant issues, processes, and systems involved. The goal of the program is to prepare individuals to better serve the needs of abused children and violent families and to qualify for career positions for which multidisciplinary training is essential.

Admission to the program requires upper division standing, formal application to the school, a screening interview with the program director covering the applicant's prior academic work, and approval of the individual student program. The program requires 24 units of upper division course work including 16 units of required core courses, 4 units of electives, and 4 units of field experience. Students must earn a minimum C grade point average to qualify for the certificate. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required Courses (16 units)

CHDV412	Issues in Child Abuse, Neglect, and Family Violence (4)
COMD457	Communicating with Abused Children and Violent Families (4)
COUN/PSY403	Psychosocial Dynamics of Child Maltreatment and Family Violence (4)
SW 456	Multidisciplinary Teams, Child Maltreatment, and Family Violence (4)

Field Experience (minimum 4 units)

Select from following:

** COMD 578	COUN 495
EDSP 499, ** 503	HHS 495
PSY 485, ** 595	SW 495

** open to graduate students only

Electives

Select at least 4 units from following with adviser approval

COUN 406, 460, 480	CRIM 439
CHDV 421, 423	NURS 470
NURS/SW 455	PSY 412AB, 426, 464
SOC 421, 440, 482, 483	SW 476

Intercultural Proficiency

Credit Certificate Program

The InterCultural Proficiency (ICP) Credit Certificate Program is designed to increase students' abilities to communicate and interact effectively within our increasingly multicultural living and working environment. Achieving intercultural proficiency is a personal dynamic and developmental journey. The overall goal of the program is to prepare our students to be change agents with the knowledge and skills that will enable organizations and institutions to accept, value and honor diversity.

Requirement for the Certificate (24 units)

Intercultural Communications Requirement (4 units)

Select one course from the following list:

SPCH 489	Intercultural Communications (4) or
SPCH 459/MKT 459	Intercultural Business Communications (4) or
ML 300	Linguistic Diversity in Urban America (4)

Required Courses (20 units)

ICP 481 Achieving Intercultural Proficiency in Urban Communities (4)
 ICP 483 Intercultural Proficiency: Diverse Urban Families (4)

ICP 485 Mobilizing Diverse Communities (4)
 ICP 490 Reflective Seminar: Theoretical and Practical Issues in Achieving Intercultural Proficiency (4)
 ICP 495 Practicum: Serving Diverse Communities (4)

List of Courses - Undergraduate Level

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

Courses in Health and Human Services (HHS)**Lower Division Courses****101 Introduction to Higher Education in Health & Human Services (2)**

Orientation to the role of higher education and the development of life skills necessary for successful transition to CSLA. CR/NC, NIS acct. required.

154L, P Selected Topics in Health and Human Services (1-4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in health and human services. May be repeated to a maximum of 12 units as subject matter changes.

Upper Division Courses**395 Community Service in Health and Human Services (1-4)**

Prerequisites: Approval of a faculty sponsor and acceptance by an appropriate agency. Participation in school, clinic, civic or other community service work in health and human services. May be repeated to maximum of eight units. Graded CR/NC.

445 Management for Aged or Physically Handicapped (4)

Prerequisites: EDSP 460, PSY 150. Management of resources to meet functional needs of aged and/or physically handicapped. Emphasis on adaptation of family living situations, life styles, work processes, and equipment in home. Field trips included.

495 Field Work in Health and Human Services (1-4)

Prerequisite: Admission to a Health and Human Services credit certificate program. Work with community service organizations; placement arranged by appropriate certificate program coordinator. May be repeated to maximum of 8 units. Graded CR/NC.

Courses in Intercultural Proficiency (ICP)**481 Achieving Intercultural Proficiency in Urban Communities (4)**

Prerequisites: Junior standing or above. Preparation for understanding sociocultural and community factors necessary for achieving intercultural proficiency. Practical experience enabling increased intercultural proficiency in relation to diverse communities. Graded ABC/NC.

483 Intercultural Proficiency: Diverse Urban Families (4)

Prerequisite: Junior standing or above.
 Corequisite: ICP 495 (1) Description and analysis of similarities and differences among ethnic families in urban communities; unique values and beliefs, attitudes, goals, family organization, place of family in society and gender roles. Graded ABC/NC.

485 Mobilizing Diverse Communities (4)

Prerequisite: Junior standing or above.
 Corequisite: ICP 495 (1 unit). Concepts and practices of community empowerment. Community organization, collaboration, mobilizing, urban ecology; ramifications of institutional racism in American society. Lecture 2 hours; activity 2 hours. Graded ABC/NC.

490 Reflective Seminar: Theoretical and Practical Issues in Achieving Intercultural Proficiency (4)

Prerequisite: Admission to the Credit Certificate Program in Intercultural Proficiency and completion of ICP 481, 483, 485, and the Intercultural Communication requirement.
 Corequisite: ICP 495 (2 units). Perspectives on intercultural proficiency as relates to the immersion experience. Linking theoretical models to practical problems in students' residential/service experiences. Seminar 2 hours; activity 2 hours. Graded ABC/NC.

495 Practicum: Serving Diverse Communities (1-4)

Prerequisites: Admission to the Credit Certificate Program in Intercultural Proficiency and completion of ICP 481 and the Intercultural Communication requirement. Completion of a course in a language of the host family is highly recommended. Corequisite: ICP 483, 485, and 490. Volunteer work with social service and youth serving agencies incorporating the principles of service and learning. Supervision 4 hours. Graded CR/NC.

School of

Natural and Social Sciences

OFFICE OF THE DEAN
 King Hall D1052
 Phone: (323) 343-2000
 E-mail: nss@calstatela.edu
 Website: <http://nss.calstatela.edu/>

Administrators:

Dean: David L. Soltz
Associate Dean: Joseph Bragin
Director of Curriculum and Instruction: Edward S. Malecki, Jr.
Fiscal/Administration: Patrice M. Cates
Director of Academic Support Office: Sal Membreno
Director of Development: Kristine Werlinich

The School of Natural and Social Sciences (NSS) is the largest and most diverse in the University with over 200 outstanding and dedicated faculty who have won more Statewide Outstanding Professor Awards than faculty in any other academic unit at Cal State L.A. Composed of fourteen different departments offering a variety of undergraduate and graduate degrees, the School curriculum embraces a range of subjects from A to Z (anthropology to zoology).

At the undergraduate level, the School is strongly committed to liberal arts and sciences with courses offered in all six blocks of the present General Education program. All of the courses in the American Institutions, Natural Science, and Quantitative Reasoning sections are taught by faculty in NSS. In addition, the School offers courses in the Humanities, Social Science, Lifelong Learning and Critical Thinking blocks of the GE program.

Faculty in Chicano Studies, the Korean American and Korean Studies Center, Latin American Studies, Pan African Studies, and Religious Studies combine with their counterparts in Anthropology, Geography, History, Political Science, Psychology and Sociology to significantly promote the university goals of multiculturalism and diversity through teaching, curriculum development and service. The School's Math and Science Study Center plays a key role in helping diversify the natural sciences by providing support for high potential minority students in science and math courses.

Students taking classes in NSS can choose majors leading to a liberal arts degree as well as degrees aimed at preparing them for professions in law, medicine, teaching, and science. The Departments of Biology and Microbiology, Chemistry and Biochemistry, and Psychology work together in the highly successful Minority Biomedical Research Support Program (MBRS). The Departments of Biology and Microbiology, Chemistry and Biochemistry, and Geography and Urban Analysis work together in the new **Center for Environmental Analysis (CEA-CREST)** program that will support students pursuing careers in environmental sciences. The latter program represents a prime example of fruitful collaboration encouraged by the unique presence of both natural and social science disciplines in one school.

The Department of Political Science offers a Prelegal Option in its major and a Prelaw minor for students interested in a legal career.

The Departments of Chicano Studies, Geography, History, and Latin American Studies offer multiple subject teaching options for students interested in a teaching career. The Biology, Chemistry, Geology, Math, Physics, Natural Science, and Social Science programs offer students a program for a single subject credential.

The School of Natural and Social Sciences houses several programs designed to facilitate collaboration between Cal State L.A. and other institutions. **Bridges to the Future** is a partnership with the Pasadena, Los Angeles and East Los Angeles community colleges to increase the transfer of minority students in the biomedical sciences disciplines at Cal State L.A. **Bridges to the Ph.D.** is a collaborative effort by Cal State L.A., UCLA, USC, and UCI aimed at increasing the number of minority students in Ph.D. programs in the fields of biomedical sciences. Several projects sponsored by the Environmental Biology Faculty Group, including **the Cal State L.A. Marine Biology Research Project**, facilitate collaboration with scientists from the National Marine Fisheries Service to provide internships and learning projects for Cal State L.A. students interested in the study of biological, oceanographic and global change.

NSS also has a variety of programs and projects that facilitate collaboration between faculty in the biological, health and environmental sciences. In addition to the MBRS and CEA-CREST programs mentioned above, these include **the Environmental Sciences Office**, **Center for Spatial Analysis and Remote Sensing (CSARS)**, the Health Careers Opportunity Program (HCOP), the **Minority Access to Research Careers (MARC)**, the **Minority Science Program (MSP)**, and **Research Experiences for Undergraduates in Chemistry and Biochemistry**.

Mission Statement

The School of Natural and Social Sciences at California State University, Los Angeles is committed to programs of academic excellence in the fields of natural and social sciences that provide access and opportunity for our uniquely diverse student body. The School provides innovative degree programs leading to the baccalaureate and master's degrees in an environment that encourages research participation by students and faculty. The School is committed to providing a broad educational experience for all university students, thereby enhancing their ability to contribute to society. Interaction among the natural sciences, social sciences and the community is an essential component of our programs.

School Advisement Center

King Hall D1044

Phone: (323) 343-4689

Email: nssadvi@calstatela.edu

Website: <http://nss.calstatela.edu/NSSAdvisement/webpage.htm>

The Student Advisement Center in the School of Natural and Social Sciences is available to assist students with articulation problems in the transfer of general education units, to provide students with information on the programs available within the fourteen Departments in the School, to explain to students their transfer units, to work with students to explore solutions to probation and disqualification, to assist students in the exploration of solutions to obstacles in their academic progress, to assist students in contacting their major advisers, and, in general, make the academic process easier for all students. The Student Advisement Center is open from Monday through Thursday - 8 am to 6 pm. For more information, visit our Web page.

Undergraduate Programs

The diversity of the major programs, options, and minors in the school of Natural and Social Sciences permits students to pursue a variety of educational goals. All the programs permit students to pursue a liberal arts education, but special options and minors within these programs also permit students in NSS to focus on preparation for careers in education, science, law, medicine, government and industry. Students are encouraged to peruse the following list of programs, options, and minors to see the variety of options that are available to them. More detailed descriptions of these programs can be found in the alphabetical listing of programs in the **Academic Programs: Department, Division and Interdisciplinary-based** chapter of this catalog.

Afro-American Studies

(Department of Pan African Studies)

B.A., Afro-American Studies with distinctive options in African, Caribbean, and Afro/Latin and Minor in Pan-African Studies

Anthropology

B.A., Minor

Biology

B.S., Minor

Biochemistry

(Department of Chemistry and Biochemistry)

B.S. in Biochemistry

Chemistry

B.A.

Chicano Studies

Minor

Computer Science

(Department of Mathematics and Computer Science)

B.S., Minor

Geography

B.A. in Geography, General Option (Urban Analysis), Minor, Certificate in Cartography, Geographic Information Systems, and Remote Sensing, Certificate in Urban Land Use and Property Analysis

Geology

B.S., Minor

History

B.A., Minor, Minor in Religious Studies

Latin American Studies

B.A., Minor

Mathematics, B.A., B.S., Minor

Mexican American Studies

(Department of Chicano Studies)

B.A.

Microbiology

(Department of Biology and Microbiology)

B.S. in Microbiology, Minor

Natural Science

B.S., Biology Option, Chemistry Option, Geoscience Option, Physics Option

Physics

B.A., B.S. in Physics, B.S. in Physics Option in Biophysics, Minor, Certificate Program in Health Physics Technology

Political Science

B.A., General Option, Prelegal Option, Public Administration Option, General Minor, Prelaw Minor, Public Administration Minor, World Politics Minor

Psychology

B.A., Minor

Social Science

(Department of History)

B.A., History Option, Political Science Option, Geography Option

Sociology

BA, General Option, Human Development and Aging Option Minor, Minor in Social Gerontology

Graduate and Postbaccalaureate Programs

Graduate Coordinator's Office
King Hall D1051
Phone: (323) 343-2005
E-mail: nss@calstatela.edu
Website: <http://nss.calstatela.edu/gradprograms.htm>

The School of Natural and Social Sciences offers fourteen master's degree programs in the fields of natural and social sciences. These graduate programs prepare students for advanced study toward the Ph.D. degree and for careers as professionals in NSS disciplines, community college teaching, industry, and government. Please see below for listing of programs and visit our website for more information.

Nationally Accredited Programs:

Chemistry -

American Chemical Society (ACS)

Psychology (graduate) -

Association for Behavior Analysis: International

Public Administration (graduate) -

National Association of Schools of Public Affairs and Administration (NASPAA)

Master of Arts Degree in Anthropology

provides training in five areas: culture theory, ethnography, archaeology, linguistics, and physical anthropology.

Master of Science Degree in Biology

prepares students for biological research, doctoral study, and technical positions.

Master of Science Degree in Chemistry

(also an option in Biochemistry) prepares students for employment in industry, teaching, or more advanced study toward the Ph.D. degree.

Master of Arts Degree in Geography

prepares students for teaching at secondary and community college level, employment in government and private industry.

Master of Science Degree in Geology

prepares students for professional employment in industry and government, teaching positions in community colleges.

Master of Arts Degree in History

is designed for the attainment of a liberal education appropriate to careers in such professions as law, journalism, business, government service, and librarianship.

Master of Arts Degree in Latin American Studies

provides a multidisciplinary approach to the study of one of the world's major regions. The program prepares students to pursue careers in teaching, public service, nonprofit organizations, or commerce or to continue in Ph.D. programs in the social sciences.

Master of Science Degree in Mathematics

prepares students for higher mathematical work in industry, business, government, and teaching.

Master of Arts Degree in Mexican American Studies

Department of Chicano Studies prepares students who wish to pursue a Ph.D. or teach in community colleges.

Master of Science Degree in Physics

prepares students for community college teaching, employment in industry, or further graduate study toward the doctorate in Physics.

Master of Arts Degree in Political Science

emphasizes advanced studies for those interested in community college teaching or preparing for doctoral studies in political science.

Master of Science Degree in Public Administration

(Department of Political Science) provides present and future public service employees the administrative skills and knowledge for personnel, financial, and coordination functions in public agencies.

Master of Arts Degree in Psychology

General Option: Is designed for students wishing to pursue graduate work in psychology without a specific career application.

Research Option: Is a rigorous program designed to develop research and conceptual skills for students whose primary interest is in continuing their education in a doctoral program.

Master of Science Degree in Psychology

Applied Behavior Analysis Option: Is designed to develop specialized professional competence in the application of behavior analysis to counseling, the education of normal children and the developmentally disabled.

Marriage, Family, Child Counseling Option: meets the educational requirements for state licensure as a Marriage, Family and Child Counselor as set forth by the State of California.

Master of Arts Degree in Sociology

prepares students for doctoral studies, teaching, or working in a professional capacity in governmental or private agencies.

Certificate Programs Offered:

Biotechnology and Industrial Chemistry

Admission Requirements to the Master's Degree Programs

The School of Natural and Social Sciences has a two-step admission process. Graduate applicants admitted to any of the Natural and Social Sciences programs are admitted to *Unclassified Graduate Status*. Applicants must apply to their major department for graduate admission to qualify for classified graduate standing in their degree program.

In addition to University admission requirements, applicants to graduate programs in the School of Natural and Social Sciences may be required to fulfill additional departmental criteria for their degree program. Please refer to your major department for more information for university admission*.

*For information about graduate study, see the **Graduate and Postbaccalaureate Study: General Information** chapter of this catalog.*

School Rules and Regulations

In addition to University regulations, the School of Natural and Social Sciences has specific graduate regulations governing the following:

- Special Action Admission
- Eligibility of courses on probationary program
- Graduate Writing Proficiency Examination requirement
- Transfer credit on a master's degree program

- Procedures for the master's thesis
- Procedures for the comprehensive examination
- Changing option from comprehensive examination to thesis and vice versa
- Validation of expired courses on a master's degree program

Please check with your major adviser or the Graduate Studies Office of the School for more information.

List of Courses - Undergraduate Level

Courses in Natural and Social Sciences (NSS)

101 Introduction to Higher Education (2)

Exploration of skills and resources that will help students attain degree objectives. This course fulfills the University requirement for an introduction to higher education. Graded *CR/NC*.

301 Transition to Cal State L.A. for Natural and Social Science Majors (2)

Exploration of skills and resources that will help the transfer student attain degree objectives. This course fulfills the University requirement for an introduction to higher education course for transfer students. NIS account required. Graded *CR/NC*

354 Special Topics (1-4)

Prerequisite; varies with topic. Topics of special interest to wide university audience as announced in *Schedule of Classes*. May be repeated for credit as topic changes.

454 Special Topics in Natural and Social Sciences (1-4)

Prerequisites: As needed for specific topic. Current topics of special interest to students in Natural and Social Sciences, as announced in the *Schedule of Classes*. May be repeated to a maximum of 8 units for credit.

University Programs

The following programs are offered by the University:

Intercollegiate Athletics

INTERCOLLEGIATE ATHLETICS OFFICE

Physical Education 104
Telephone: (323) 343-3080

SPORTS INFORMATION OFFICE

Physical Education 212A
Telephone: (323) 343-5308

FAX: (323) 343-3199

E-Mail: tarredo@cslanet

Website: www.calstatela.edu/univ/athletic

Director of Intercollegiate Athletics: Carol M. Dunn
Assistant Athletic Director: Lee De León
Intercollegiate Athletics Board Chair: Gerald Beer
Sports Information Director: Jacqueline Mejia
Coaches:
 Baseball John O. Herbold II
 Men's Basketball David Yanai
 Women's Basketball Marcia Murota
 Men's & Women's Cross Country and
 Track and Field Kevin McCarthy
 Men's and Women's Soccer Leonardo Cuellar
 Men's and Women's Tennis Tina Karwasky
 Volleyball William Lawler

The Intercollegiate Athletics program constitutes an integral part of the total program of activities at Cal State L.A. and involves participation by faculty, students, and administration. Major fiscal support for the athletics program is provided through allocation of student activities fees. Coaching and programming of sports are provided by the Division of Intercollegiate Athletics. In addition to coaching responsibilities, members of the division may also be faculty members in academic departments or divisions within the University. The Intercollegiate Athletics Board (IAB) works closely with the Director of Intercollegiate Athletics. The IAB is comprised of faculty, students, administrators, alumni, and a University Development Board designee.

Cal State L.A. is a member of the National Collegiate Athletic Association (NCAA) and the California Collegiate Athletic Association (CCAA). The Intercollegiate Athletics program fields teams in men's baseball, basketball, cross country, soccer, tennis, indoor and outdoor track and field. Women's teams compete in basketball, cross-country, soccer, tennis, indoor and outdoor track and field, and volleyball.

Normal Progress for Student Athletes

Minimum academic progress for student athletes is defined as completion of the minimum 186 quarter units required for a bachelor's degree within five academic years.

In order to be eligible for competition in intercollegiate athletics, student athletes must earn units in courses acceptable toward a specific degree program according to the following schedule:

Year	Quarter	Units Earned
1	1	12
	2	24
	3	36
2	4	48
	5	60
	6	72
3	7	84
	8	97
	9	110
4	10	122
	11	134
	12	147
5	13	160
	14	173
	15	186

This schedule permits the student athlete to enroll on a part-time basis one quarter each academic year to correct unit deficiencies.

Student athletes must formally declare a major by the beginning of their seventh quarter of collegiate enrollment.

Student athletes who transfer from other collegiate institutions shall be subject to the above minimum academic progress schedule upon enrollment at Cal State L.A. Such transfer students shall commence their progress in this schedule at the rate equal to the total number of full-time quarters in attendance.*

For freshmen and sophomores, no more than one-third (12) of the yearly minimum number of units (36) between seasons of competition may be electives. At least two-thirds (24) of the units must be in general education or major courses. For juniors and seniors, the quarter units earned must be in major and general education courses unless a student athlete's record clearly indicates that the completion of all required (major and general education) courses plus any previous elective courses will result in the student athlete being short of the required number of units for graduation.**

**Full-Time Attendance is Defined by the NCAA as any quarter or the first day of instruction.*

***Although based on the same academic work, the NCAA's units between seasons shall be considered a separate calculation.*

Student athletes must maintain a minimum C (2.0 on a scale in which A = 4.0) grade point average at all times in both their overall collegiate record and their Cal State L. A. work in order to remain eligible for competition.

In the calculation of the required 24 units in major and general education courses, only courses in the primary major and in general education will be included. Although students may elect to take a minor and/or a second major, they are not required to do so. For this reason, courses in the minor and in the second major will be considered electives.

The major code shown on the student athlete's permanent record card (PRC) at Cal State L.A. will be used to determine the student athlete's official major.*** If for some reason that code is incorrect, it is the student athlete's responsibility to correct the code by filing a form 0-2 (*change of objective*) with the Office of Admissions. The student athlete must give a copy of the form 0-2 to the Faculty Athletics Representative before the initial eligibility check. In the absence of such a form, the major code shown on the student athlete's PRC will be used.

A student athlete must meet normal progress in both the current and proposed new major before changing majors. This

means that changing majors is not a reason for failing to meet normal progress.

No seventh quarter athlete will be declared eligible unless the Faculty Athletics Representative has received the following:

1. Evidence of the student-athlete's formally declared major.
2. A copy of the student athlete's department advisement form signed by the department adviser.

General Education Honors Program

Cal State L.A.'s General Education Honors Program provides highly qualified students with diverse, enriched intellectual activities through a separate curriculum that includes honors classes, seminars, and research. Honors courses promote intellectual curiosity, critical reading, and logical thought and writing. These courses have a lower student enrollment than other general education courses and are taught by the University's finest professors, many of whom are nationally recognized authorities in their field of study. Honors students not only have the opportunity to accelerate their academic program; they also encounter challenging and rewarding educational experiences.

The Program:

- Facilitates student participation in the National Collegiate Honors Council (NCHC) and the Western Regional Honors Council (WRHC).
- Provides high-potential students an opportunity to participate in intellectually demanding and academically challenging General education courses.
- Offers opportunities for greater interaction with peers and involvement in interdisciplinary learning.
- Identifies Cal State L.A. resources through which high-potential students can receive academic, personal, and career counseling to help them better define and reach their goals.
- Creates opportunities for high-potential students and faculty members to establish closer educational relationships.
- Prepares students for participation in upper division departmental honors programs.

General Education Honors Program Students are offered the following special opportunities:

- Special sections of general education courses. Participation in courses appropriately modified in content,

methodology, and level of enrichment for the high potential student.

- Honor societies. Coordination of membership with other honors organizations.
- Priority registration privileges. Students are allowed priority registration privileges.
- Waiver of prerequisites. With department or division approval, students with appropriate background may be allowed to enroll in upper division courses without having met the usual lower division prerequisites.
- Club membership. All program students hold membership in the General Education Honors Club.
- Student Association. All students in the program hold membership in the Student Association, which promotes nonacademic and social interests and serves as a source of enrichment to the University by sponsoring and arranging activities beneficial and open to the entire campus. The group is represented on the Honors Council and aids the director and the council in the developing and implementing the program.

Honors classes that meet general education requirements are available each quarter. These classes are designated as General Education Honors Program courses and enrollment is restricted to honors program students. All courses seek to explore more advanced and sophisticated areas of knowledge than regular general education offerings, although they meet general education requirements. A higher level of achievement is expected. Honors Program students are required to complete at least 24 units of these courses with a minimum B (3.0) grade point average to earn a General Education Honors Program certificate.

For further information, contact the Program Director, Honors Program office, in the Library, Palmer Wing, phone (323) 343-4960.

Special Major for the Bachelor's Degree

The Bachelor of Arts or Bachelor of Science degree with a Special Major allows selected students an opportunity to pursue individualized programs of study if their academic and professional goals cannot be met through existing degree programs, or combinations of programs (i.e., majors, minors, etc.), at CSLA or other CSU campuses. The Special Major consists of a program of study in two or more disciplines developed in consultation with faculty members from the respective departments.

The Special Major is not a means of bypassing normal graduation requirements nor does it provide an alternative

means of graduating for students who have failed to complete requirements in a previously designated major. Students must apply for the Special Major when they have at least one full year (45) units of academic work remaining to complete minimum requirements for a bachelor's degree. Special Major programs are considered on a case-by-case basis, approval is determined on the basis of academic merit of the proposed program, rationale, and the student's potential for successful completion of the proposed program.

Requirements

- A minimum 2.50 grade point average is required.
- Applicants must have no more than 140 units earned that are applicable toward another degree program by the end of the quarter in which the application for the Special Major is submitted.
- A minimum of 70 quarter units, of which at least 60 must be upper division, must be included in the program.
- Neither lower nor upper division courses taken to satisfy general education requirements may be counted toward fulfillment of minimum requirements for the Special Major.
- All programs must include an upper division writing requirement, selected with adviser's approval, from one of the approved upper division writing courses from one of the disciplines in the Special Major program.
- A principal adviser must be selected from one of the disciplines proposed for the Special Major program.

Procedures

- Prepare a Special Major Preliminary Application obtained from the Office of Undergraduate Studies.
- Prepare a concise statement of the academic and professional goals you seek through a Special Major, indicating why these goals cannot be met through related existing degree programs and prepare a preliminary list of courses in the two or three departments that represent the kind of program appropriate to your goals.
- Submit the Preliminary Application to the Office of Undergraduate Studies for review and approval of the Special Major. Upon approval, an Application for Special Major for Bachelor's Degree will be provided to you. A faculty committee composed of a faculty member from each department on the proposed program may be recommended by the Associate Dean of Undergraduate Studies to guide you in the development of your Special Major program.
- Discuss your statement and proposed list of courses with advisers in each of the specific departments that comprise your Special Major. With the assistance of your departmental advisers, determine the courses that will become part of your final program. Obtain the signatures of departmental advisers and department chair for each area of study. Their signatures indicate that they have reviewed and approved the proposed course of study.
- Obtain the signature of the school associate dean for each of the departmental course areas listed on your program and submit the completed application to the Office of Undergraduate Studies for university-level approval.
- Upon University approval, the application will be sent to you and to each department listed on your program. A Change of Major Form will also be sent to you with instructions to change your major to the official title listed on your approved program. Be advised that pending final approval of your Special Major program, you proceed with projected course work at your risk.

Further information is available from the Office of Undergraduate Studies, Administration 725.

Credit for Prior Experiential Learning (CPEL)*

Through the CPEL program, Cal State L.A. grants undergraduate academic credit for prior learning, knowledge, or skills-based experience that has been documented and evaluated according to campus policy. Students should be aware, however, that policies for earning credit for prior learning vary among CSU campuses.

Cal State L.A. grants up to 4 units of resident credit for UNIV 295, a course in which the student enrolls and, in collaboration with a faculty sponsor, prepares a portfolio documenting the prior learning. In addition, a student may earn up to 8 units of nonresident credit, applicable to a bachelor's degree, for

learning, knowledge, or skills-based experience that has been documented and evaluated according to campus policy. To qualify, students must have completed 45 quarter units in residence at Cal State L.A. and not more than 165 quarter units overall, and must demonstrate how the prior learning articulates with their present educational objectives. Credit is awarded for UNIV 295 and for the prior learning based on faculty evaluation of the learning experience in terms of academic standards both within the discipline and universitywide. Applications for CPEL are available in the office of the Dean of Undergraduate Studies, Administration 725.

Cooperative Education*

Cal State L.A. offers a range of Cooperative Education courses carrying different unit values.

The following courses are offered through the Cooperative Education program.

298 Preparation for Cooperative Education (2 units)

398 Cooperative Education (1–4 units)

399 Cooperative Education Honors (1–4 units)

498 Advanced Cooperative Education (1–4 units)

UNIV 298 is open to all students without restriction. Admission to UNIV 398, 399, and 498 is arranged through the coordinator

for the student's major department or division. Admission to UNIV 399 requires UNIV 298 as prerequisite, as well as eligibility for a University or academic department or division honors program.

A minimum 2.35 overall grade point average is required and students must have completed 45 quarter units of course work before requesting permission of their major department or division to enroll. Approved employment, periodic conferences, and written reports are required.

Full descriptions of cooperative education courses (UNIV 298, 398, 399, and 498) are found in the University (UNIV) Courses section of this chapter.

Internship in Public Service*

The Internship in Public Service program combines individual instruction with practical experience in government agencies and quasi-public enterprises. Although enrollment usually is restricted to Political Science majors, non-majors with appropriate background and preparation may apply. The program operates similarly to the Cooperative Education

* **NOTE:** Students should note that a limited amount of unit credit is allowed toward the baccalaureate for each of these programs. Policies and regulations differ among various departments, divisions, and schools. Each student should consult the appropriate major department, division, or school for specific procedures and instructions.

program, except that the maximum 6 units earned may apply only to upper division free elective credit rather than toward the major. A qualifying civil service examination is required for admission to some internship programs. Information about opportunities and qualifications may be obtained from the coordinator in the Political Science Department.

Interdisciplinary Studies Master's Degree

The interdisciplinary studies major for the Master of Arts or Master of Science degree is a highly restricted interdisciplinary program designed for students whose professional/academic objectives are unique and cannot be met by existing master's degree offerings. It is a program that comprises course offerings from at least two departments in related disciplines and must provide sharp focus and appropriate coherence. As a rule, no more than 13 quarter units of acceptable course work completed prior to approval by the principal graduate adviser, major department or division, and school graduate dean may be included on a master's degree program.

Admission Requirements

In addition to meeting minimum University requirements for admission to classified graduate standing, applicants must possess a baccalaureate in an area cognate to the areas of the proposed degree, must have a minimum 2.75 grade point average (A=4.0) in the last 90 quarter units attempted, and must meet all school requirements and such department or division requirements as course prerequisites, test scores, and grade point average for the master's degrees of the schools and departments/divisions in which course work for the Interdisciplinary Studies Master's is proposed. Approval for an Interdisciplinary Studies Master's is based upon individual justification. If course work is to be taken in departments/divisions in more than one school, students must make formal written application to the Dean of Graduate Studies and Research. If a majority of course work is to be taken in departments/divisions within one school, students are required to make formal written application to the school graduate dean. All applications must include:

- Clear and concisely stated rationale for pursuing an Interdisciplinary Studies Master's and an indication of the professional/academic objectives to be achieved. This rationale must include evidence clearly indicating that the Interdisciplinary Studies program could not be accommodated within any existing approved master's degree program on this campus.
- A proposed list of available courses chosen from two or more departments/divisions totaling a minimum of 45 units, of which at least 23 units must be 500 level.
- An indication of whether a comprehensive examination or thesis or project will be used to complete the graduate program. If a thesis or project is proposed, a preliminary description of the thesis topic or research project is to be included. If a comprehensive examination is proposed, an indication of the areas in which the student will be examined is to be included.
- Names and areas of specialization of at least two faculty members representative of those who might consent to serve on the advisory committee for such a degree program.

The Dean of Graduate Studies and Research must approve all programs that will include course work from more than one school. The student's program is subject to University graduate procedures and regulations that govern all graduate degree offerings.

List of Courses - Undergraduate Level

University Courses (UNIV)

NOTE: Courses that are designed University (UNIV) frequently are interdisciplinary in nature. Some, such as UNIV 396, Honors Program Seminar, are limited to certain categories of students. Cooperative Education (UNIV 298, 398, and 498) and CPEL (UNIV 295) courses appear in this catalog under the title UNIV, but appear in the Schedule of Classes with the course abbreviations used by the various departments and divisions that offer them.

Subcollegiate Courses

054 Special Topics (1-4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in *Schedule of Classes*. May be repeated for credit as topic changes. *No credit toward baccalaureate.*

060 Study Group (1)

Corequisite: Associated course. Lecture methods and study skills development including reading comprehension, critical analysis of course content, time and task management notetaking, and test preparation.

Lower Division Courses

101 Introduction to Higher Education for Undeclared Majors

Orientation to the role of higher education, the structure and policies of the University and the development of skills necessary for success in life and at CSLA. This course is especially designed for undergraduate students who have not yet declared a major. Graded CR/NC, NIS Acct. required.

154 Special Topics (1–4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in *Schedule of Classes*. May be repeated for credit as topic changes.

254 Special Topics (2)

Prerequisite: Varies with specific topic. Topics of special interest as announced in *Schedule of Classes*. Graded *CR/NC*.

295 Credit for Prior Experiential Learning (1–4)

Prerequisite: At least 45 units in residence but not more than 165 total units completed. Approval for registration must be obtained through University Undergraduate Studies office. Preparation of materials and portfolios documenting prior college-level learning acquired in nonacademic settings. Upon successful completion, 1–4 resident units will be awarded. In addition, 1–8 units for nongraded, nonresident credit may be awarded for prior learning. These units may be upper or lower division and may apply toward the major with major department approval. Graded *CR/NC*.

298 Preparation for Cooperative Education (2)

Techniques of relating major to internship (work experience) through discipline-based research; documentation of transferable skills through resumes, interviews, and other reporting techniques appropriate to academic concentration; designed to enhance internship performance. Graded *CR/NC*.

Upper Division Courses**354 Special Topics (1–4)**

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in *Schedule of Classes*. May be repeated for credit as topic changes.

396 Honors Program Seminar (2)

Prerequisite: Limited to students in the GE Honors Program. Critical reading of seminal works affecting human thought and achievement. Topic and instructor(s) vary each quarter. May be repeated to maximum of 4 units.

398 Cooperative Education (1–4)

Prerequisites: Courses appropriate to the work experience; approval by major department Cooperative Education coordinator. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units; combined units of 398 and 399 may not exceed 12. Graded *CR/NC*.

399 Cooperative Education Honors (1–4)

In addition to prerequisites for UNIV 398, the prerequisites are UNIV 298 and eligibility to participate in a university or departmental honors program. Integration of work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. May be repeated to maximum of 12 units; combined units of 398 and 399 may not exceed 12. Graded *CR/NC*.

401 Writing Proficiency (2)

Prerequisites: ENGL 102* and at least one attempt of the Writing Proficiency Exam (WPE). Development of a writing portfolio required to satisfy Graduate Writing Assessment Requirement (GWAR)/WPE. Instruction to assist student in achieving satisfactory levels of writing performance. Graded *CR/NC*.

*Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

454 Special Topics (1–4)

Prerequisite: Varies with topic. Topics of special interest to wide university audience as announced in *Schedule of Classes*. May be repeated for credit as topic changes.

498 Advanced Cooperative Education (1–4)

Prerequisites: Completion of senior level courses appropriate to experience; approval by major department Cooperative Education coordinator. Participation in work experience integrated with academic program; assignments arranged individually in advance through coordinator. Minimum of 10 hours per week required for each unit. Students in departments with graduate Cooperative Education programs may apply maximum of 4 units toward graduate degree program. Graded *CR/NC*.

Intercollegiate Athletics Courses (ATHL)**Upper Division Courses****341–342 Intercollegiate Athletics (1–2 each)**

Prerequisite: Consent of coach. Only NCAA-eligible student athletes may enroll and participate in these courses. Advanced practice in performance techniques in preparation for intercollegiate competition. *A maximum of 10 units of intercollegiate athletic courses may be applied toward a baccalaureate.* Graded *CR/NC*.

341 Series: Individual or Dual Sports (1–2 each)**341C Cross Country (Men's) (Women's) (1)****341N Tennis (Men's) (1)****341T Tennis (Women's) (2)****341F Track and Field (Men's) (Women's) (2)****342 Series: Team Sports****342B Baseball (Men's) (2)****342K Basketball (Men's) (Women's) (2)****342S Soccer (Men's) (2) (Women's) (2)****342V Volleyball (Women's) (2)**

Library Course (LIBR)

150 Library Skills (2)

Surveys Library reference and research methods, processes, materials and techniques. Students develop critical skills to use electronic and print Library resources effectively for locating information and preparing term papers, oral presentations, projects, and thesis.

<h2><i>Graduate Level Course</i></h2>
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University Graduate Course (UNIV)

599 Thesis or Project for Interdisciplinary Studies

Master's (1-8)

Prerequisites: Advancement to candidacy, formal approval of topic by advisory committee. Independent study resulting in a thesis or project. Oral examination on thesis required. Open to Interdisciplinary Studies Master's students only.

Academic Programs: Department, Division and Interdisciplinary-based

Accounting

Administration and Counseling

Anthropology

Art

Asian and Asian-American Studies

Biology and Microbiology

Chemistry and Biochemistry

Chicano Studies

Child and Family Studies

Civil Engineering

Communication Disorders

Communication Studies

Criminal Justice

Curriculum and Instruction

Economics and Statistics

Educational Foundations and
Interdivisional Studies

Electrical and Computer Engineering

English

Entrepreneurship

Finance and Law

Geography and Urban Analysis

Geological Sciences

Health and Nutritional Sciences

History

Information Systems

Interdisciplinary Business

International Business

Kinesiology and Physical Education

Latin American Studies, Interdisciplinary

Liberal Studies

Management

Marketing

Mathematics and Computer Science

Mechanical Engineering

Modern Languages and Literature

Music

Natural Science, Interdisciplinary

Nursing

Pan-African Studies

Philosophy

Physics and Astronomy

Political Science

Psychology

Social Science, Interdisciplinary

Social Work

Sociology

Special Education

Technology

Theatre Arts and Dance

Youth Agency and Administration

Department of

Accounting

School of Business and Economics

DEPARTMENT OFFICE

Simpson Tower F517

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Website: web.calstatela.edu/academic/account/

The Department of Accounting offers an undergraduate Option in Accounting in the BS Degree in Business Administration, a Certificate Program in Accounting, a graduate Option in Accounting in the MBA Degree and an MS Degree in Accountancy. Students pursuing the various programs prepare for careers in public accounting, serving clients professionally in the areas of financial accounting, cost accounting, auditing, taxes, and systems, or managerial accounting dealing with the functions of the controller in business, industry and government. The MS Degree in Accountancy also prepares students for doctoral study or research positions. The Department of Accounting is one of the largest academic departments in the University. Graduates of its various programs hold positions of prominence in major accounting organizations.

The Faculty

Professors: Adnan M. Abdeen, Joanne A. Collins, Cheryl A. Cruz, Jim D. Donohoo, Rick Stephen Hayes, J. Gregory Kunkel, Chor Tin Lau, Dennis M. Murphy, D. Lynn Rans, Ralph S. Spanswick (*Chair*), Hugh E. Warren.

Associate Professors: Neung-Jip Kim, Richard Tinwah Lau, Dong Woo Lee, Leslie Jane Park, Ronald L. Pierce, William B. Schneider, William E. Shafer, Kathryn S. Hansen.

Assistant Professor: Marianne L. James.

Emeriti: Emily C. Chang, Clifford J. Craft, Michael F. Grisafe, George A. Gustafson, Leonard W. Hein, Peter P. Lockett, Frederic E. Mints, Alvin E. Tuohino.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Option in Accounting (108 units)

Advisement: Department of Accounting.

This option prepares students for careers in either Public Accounting, serving clients professionally in the areas of financial accounting, cost accounting, auditing, taxes and systems; or Managerial Accounting, dealing with the functions of the controller in a business firm, or an institutional or governmental agency; or internal auditing. The BSBA with the option in Accounting requires completion of the BSBA Core (72 units) and the Option Requirement (36 units).

Core Requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4,4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I,II (4,4)
ECON 209	Applied Business and Economics Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)

Select one from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for Accounting (36 units)

Required Courses (28 units)

ACCT 320AB	Intermediate Financial Accounting and Reporting I, II (4, 4)
ACCT 321	Taxation of Individuals (4)
ACCT 322	Cost Accounting (4)
ACCT 325	Leadership and Professional Skill for Accountants (4)
ACCT 424A	Accounting Control System (4)
ACCT 495	Case Studies in Accounting (4)

Electives (8 units)

Select 8 units from the following:

ACCT 420	Advanced Financial Accounting and Reporting (4)
ACCT 421A	Taxation of Corporations and Partnerships (4)
ACCT 421B	Taxation of Estates, Trusts, and Gifts (4)
ACCT 421C	State and Local Taxation (4)
ACCT 422	Corporate Management Accounting Practice (4)
ACCT 424B	Auditing (4)
ACCT 427	Governmental and Institutional Accounting (4)
ACCT 428A	Internal Auditing I (4)
ACCT 428B	Internal Auditing II (4)
ACCT 433	Financial Planning and Control (4)

Program Standards

Note the following accounting program standards.

Part I. To enroll in upper division accounting courses (except ACCT 320AB), undergraduate students must have:

1) Completed the following courses:

ACCT 200AB	Principles of Accounting (4, 4)
ACCT 320AB	Intermediate Financial Accounting and Reporting I, II (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics (4)
FIN 205	Legal and Regulatory Environment of Business I (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)

2) Followed procedures specified by the Department of Accounting in the quarter preceding enrollment in the first upper division accounting course (except 320AB).

Part II. Students in the accounting option must earn a grade of C or higher in all accounting courses and have completed at least sixteen units in upper division accounting classes at Cal State L.A.

Minor in Accounting

A Minor in Accounting is available for students majoring in other fields. Twenty-four units are required. A minimum grade of C is required in all accounting course work taken to complete the minor program. A minimum of 12 units of upper division accounting courses must be taken in residence at California State University, Los Angeles. The minor will be noted on the transcript, but the minor requirements must be completed before the degree is granted.

Requirement for the Minor (24 units)**Required Courses (20 units)**

ACCT 202	Survey of Accounting (4) or
ACCT 200AB	Principles of Accounting (maximum of 4 units to count)
ACCT 300	Managerial Accounting (4)
ACCT 320AB	Intermediate Financial Accounting and Reporting I, II (4,4)
ACCT 424A	Accounting Control Systems (4)

Electives (4 units)

Select 4 units of upper division accounting courses from the following, in consultation with accounting department advisors:

ACCT 321	Taxation of Individuals (4)
ACCT 322	Cost Accounting (4)
ACCT 420	Advanced Financial Accounting and Reporting (4)
ACCT 427	Governmental and Institutional Accounting (4)
ACCT 428A	Internal Auditing I (4)

Note: Upon completion of ACCT 320B, students must consult with an accounting department advisor to secure a permit which is required to enroll in the remaining 8 units of accounting course work, ACCT 424A and a 4 unit elective.

Certificate Program in Accounting

The Accounting Department offers a credit Certificate in Accounting, designed to prepare individuals who hold or are pursuing a bachelor's degree in a field other than accounting for entry into the accounting profession.

Prerequisites (28 units)

Admission to the University with a bachelor's degree in a field other than accounting or as an undergraduate majoring in a field other than accounting;

Completion of the lower division business administration core subjects with a minimum 2.5 grade point average in the following courses:

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Submission of transcripts or official grade reports for the above courses to the Department of Accounting for evaluation.

A minimum of 48 units with a minimum 2.5 grade point average and a C in all accounting courses is required for completion of the program. Refer to the Undergraduate Study chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (48 units)**Required Courses (40 units)**

ACCT 300	Managerial Accounting (4)
ACCT 320AB	Intermediate Financial Accounting and Reporting I, II, (4, 4,)
ACCT 321	Taxation of Individuals (4)
ACCT 322	Cost Accounting (4)
ACCT 325	Leadership and Professional Skill for Accountants (4)
ACCT 424A	Accounting Control System (4)
ACCT 495	Case Studies in Accounting (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)

Electives (8 units)

Select 8 units from the following:

ACCT 420, 421ABC, 422, 424B, 427, 428AB, 433, FIN 305

Graduate and Postbaccalaureate Programs

Master of Science Degree in Accountancy

The M.S. degree in Accountancy prepares students for a wide range of employment opportunities in public accounting, industry and finance, government and nonprofit organizations. The program is designed to produce individuals who are qualified with knowledge and techniques in one or more accounting areas: Accounting information systems, financial and public accounting including auditing and taxation and managerial and cost accounting. Graduates of the program are prepared to successfully challenge a professional examination for entry into the selected area; committed to professional and career development beyond their formal education into the highest executive levels of the selected area; capable of becoming leaders exhibiting high standards of ethical conduct within the profession; and are prepared for doctoral study and research positions.

Admission to the Program

Applicants must complete 16 units of foundations of business courses: CIS 100, ECON 209 or 501, FIN 205 or 500 and MGMT 301. In addition, applicants must complete 20 units of foundations of accounting courses: ACCT 500, 320AB, 321 and 322 and have an approved graduate degree program on file in the School Advisement Center.

Requirements for the Degree (45 units)

A total of 45 units of 500-Level courses is required. All programs must be approved by the department.

Required core (24 units)

ACCT 520	Seminar: Managerial Accounting Theory (4)
ACCT 524A	Accounting Control Systems (4)
ACCT 524B	Auditing (4)
ACCT 525	Seminar: International Accounting (4)
ACCT 526	Seminar: Financial Accounting Theory (4)
ACCT 595	Accounting Case Studies (4)

Note: Students who have taken ACCT 424A, ACCT 424B and ACCT 495, or equivalent, before admission to the MS Accountancy program are exempt from ACCT 524A, ACCT 524B and ACCT 595. These students must complete additional 12 units of 500 level courses selected with adviser approval from the option courses below.

Options (21 units)

Select one of the three options listed below. Elective courses within the options are determined in conference with a graduate adviser to meet professional objectives.

Accounting Information Systems Option (21 units)

Select 21 units from the following:

CIS 527	Decision Support Systems (4)
CIS 528	Current Problems in Business Information Systems (4)
CIS 543	Data Base Systems (4)
CIS 560	Microcomputer Networks (4)
CIS 583	Information Systems Consulting (4)
CIS 584	Controlling and Auditing Computer Systems (4)

Accounting Information Systems Option (cont' d)

CIS 585	Communication and Information Services (4)
ACCT 530	Seminar: Advanced Cost and Managerial Accounting (4)
BUS 597	Graduate Research (1)

Financial and Public Accounting Option (21units)

Select 21 units from the following:

ACCT 521A	Taxation of Corporations and Partnerships (4)
ACCT 522	Seminar: Current Topics in Financial Reporting (4)
ACCT 585	Seminar: Tax Theory and Business Applications (4)
ACCT 586	Seminar: Tax Research and Practice (4)
ACCT 587	Seminar: Taxation of Corporations and Shareholders (4)
FIN 530	Seminar: Business Finance (3)
FIN 533	Seminar: International Finance (3)
BUS 597	Graduate Research (1)
FIN 598	Graduate Directed Study (1-2)

Managerial and Cost Accounting Option (21 units)

Select 21 units from the following:

ACCT 521A	Taxation of Corporations and Partnerships (4)
ACCT 530	Seminar: Advanced Cost and Managerial Accounting (4)
ACCT 585	Seminar: Tax Theory and Business Applications (4)
ACCT 587	Seminar: Taxation of Corporations and Shareholders (4)
CIS 527	Decision Support Systems (4)
MGMT 576	Seminar: Managing Health Care Organizations (3)
MGMT 577	Seminar: International Business Management (3)
BUS 597	Graduate Research (1)
MGMT 598	Graduate Directed Study (1-2)

Note: Students who have taken ACCT 421A may not take ACCT 521A.

Comprehensive Examination - Written (0 units)

Students should expect to take the comprehensive examination (BUS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

List of Courses (ACCT) – Undergraduate Level

Lower Division Courses

200AB Principles of Accounting (4, 4)

Measurement, valuation, and accumulation of accounting data; financial statement analysis and interpretation; limited coverage of accounting data use in decision-making. Credit allowed for only one of ACCT 200AB and 202.

200A = CAN BUS 2

202 Survey of Accounting (4)

Fundamentals of accounting theory and practice; how accounting serves the individual, the business entity, and the broader disciplines of law, government, and economics. Credit allowed for only one of ACCT 200AB and 202.

Upper Division Courses

Upper division standing is prerequisite to enrollment in 300- and 400-level ACCT courses.

300 Managerial Accounting (4)

Prerequisite: ACCT 200B, 202, or 260R. Use of accounting data for budgeting, cost control, pricing, evaluation of performance, and general decision-making.

320A Intermediate Financial Accounting and Reporting I (4)

Prerequisite: ACCT 200AB or ACCT 202 or ACCT 500 with minimum C grades. Accounting theory and practice relating to problems of asset valuation and classification in accounts and statements.

320B Intermediate Financial Accounting and Reporting II (4)

Prerequisites: ACCT 320A with minimum C grade, FIN 303. Valuation and classification of liabilities and stockholders' equity; study of selected contemporary accounting issues.

321 Taxation of Individuals (4)

Prerequisite: ACCT 320B. Statutes, regulations, administrative rulings, and court decisions relating to federal and California income taxes of individuals.

322 Cost Accounting (4)

Prerequisites: ACCT 300 and 320B with grades of C or better. Cost accounting as a tool in modern organizations. Topics include budgets, cost estimation, strategic cost management, cost systems, total quality management, benchmarking, and cost reporting.

325 Leadership and Professional Skills for Accountants (4)

Prerequisite: MGMT 301. Through practice and multiple assessments, focuses on development and mastery of leadership and professional skills for the accounting profession: creative and critical thinking; managing conflict; delegating; and communicating.

400-Level Courses

All 400-level courses may be applied toward master's degree requirements subject to limits established by department and approval of graduate adviser:

420 Advanced Financial Accounting and Reporting (4)

Prerequisite: ACCT 320B. Problems associated with preparation of consolidated financial statements, foreign currency translation, and partnerships.

421A Taxation of Corporations and Partnerships (4)

Prerequisite: ACCT 321. Statutes, regulations, administrative rulings, and court decisions relating to Federal and California income taxes of partnerships and corporations; procedural problems, tax management and planning; tax shelters. *Note: Course restricted to undergraduate students only.*

421B Taxation of Estates, Trusts, and Gifts (4)

Prerequisite: ACCT 321. Statutory, regulatory, and case materials applicable to federal estate and gift taxes; California inheritance and gift taxes; income taxation of estates and trusts; preparation of returns.

421C State and Local Taxation (4)

Prerequisite: ACCT 321. Through cases and materials, focuses on state and local taxation of, and tax planning for, individuals and business entities, including state income, franchise, property and sales taxes. The course will discuss the interplay of multistate tax issues with federal constitutional limitations.

422 Corporate Management Accounting Practice (4)

Prerequisite: ACCT 300 or 322. Contemporary management accounting practice employed by today's corporate America; both manufacturing and service industries covered.

424A Accounting Control Systems (4)

Prerequisite: ACCT 320B. This course focuses on the study of accounting information systems and internal controls. The course will provide the student with the tools necessary for understanding and evaluating accounting information systems. *Note: Course is restricted to undergraduate students only.*

424B Auditing (4)

Prerequisite: ACCT 424A. Auditing concepts and practices involved in emphasis on financial auditing, review and assurance services with auditing of financial statements by professional accountants in public practice (CPAs). *Note: Course is restricted to undergraduate students only.*

426 Accounting and Reporting Requirements of Small Business (4)

Prerequisite: ACCT 300. Theory, methodology, and practice of establishing, accounting for, and reporting in the small business. Emphasis on financing and establishing basic accounting systems and reporting requirements of creditors and taxing authorities.

427 Governmental and Institutional Accounting (4)

Prerequisite: ACCT 320B. Principles and problems of fund accounting for governments and nonprofit institutions. Budgets, revenues, expenditures, tax levies, appropriations, general fund, special funds, and financial reports. Separate treatment of local, state, and federal government agencies.

428A Internal Auditing I (4)

Prerequisite: ACCT 424A. This course provides an introduction to internal auditing, internal control, audit evidence, and the internal auditing process.

428B Internal Auditing II (4)

Prerequisite: ACCT 428A. This course provides and introduction to internal auditing techniques and applications. This course will cover a variety of technical auditing skills such as audit sampling, quantitative methods, and fraud auditing.

433 Financial Planning and Control (4)

Prerequisites: FIN 303; ACCT 300 or 322. Principles and techniques involved in the formulation, enactment, and administration of the budget; relation of budget practices to scientific management in business; budget reports for analysis and control.

454 Special Topics in Accounting (1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisite. In-depth presentation and analyses of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

495 Case Studies in Accounting (4)

Prerequisite: ACCT 325 and 424A and completion of a minimum of 8 unit of accounting elective courses. This is a culminating assessment course for accounting students. This course will teach students how to apply the knowledge and skills they have learned from previous courses in solving real world case problems. *Note: Course is restricted to Undergraduate students only.*

Graduate Level Courses (ACCT)

All 400-level courses may be applied toward master's degree requirements subject to limits established by department and approval of graduate adviser.

Classified graduate standing and approval by the School of Business and Economics Advisement Center are required for admission to all 500-level courses.

500 Financial and Managerial Accounting (4)

Financial and managerial accounting concepts and tools for business organizations. Topics include the accounting model, financial statements analysis, cost control and behavior, pricing budgeting, and systems design.

520 Seminar: Management Accounting Theory (4)

Advanced accounting theory as applied to modern business practice; background and place of accounting in society and the economy; current development in accounting theory.

521A Taxation of Corporations and Partnerships (4)

Prerequisite: ACCT 321. Statutes, regulations, administrative rulings, and court decisions relating to federal and California income taxes of partnerships and corporations; procedural problems, tax management and planning; tax shelters. Independent research in corporation and partnership taxation.

522 Seminar: Current Topics in Financial Reporting (4)

Objectives of financial statements, efficient capital markets, setting accounting policy, using accounting data, processing human information.

523 Seminar: Public Accounting (4)

Historical development of professions, audit function in relation to ethical and legal considerations, trends in new services for clients, the CPA firm, multinational practice, signposts of the future.

524A Accounting Control Systems (4)

Prerequisites: ACCT 320B. This course focuses on the study of accounting information systems and internal controls. The course will provide the students with the tools necessary for understanding and evaluation accounting information systems. Independent research in accounting control systems.

524B Auditing (4)

Prerequisite: ACCT 424A or 524A. Auditing concepts and practices involved in financial auditing, review and assurance services with emphasis on auditing of financial statements by professional accountants in public practice (CPAs). Independent research in auditing.

525 Seminar: International Accounting (4)

Selected analytical and policy issues underlying current developments in international accounting.

526 Seminar: Financial Accounting Theory (4)

Advanced analytical concepts implicit in contemporary accounting practice; current developments in accounting techniques; specific applications to major aspects of financial statements.

530 Seminar: Advanced Cost and Managerial Accounting (4)

Prerequisite: ACCT 520. Selected analytical and policy issues underlying current developments in standards and techniques; application of advanced concepts to profit and nonprofit organizations. 585

585 Seminar: Tax Theory and Business Applications (4)

Prerequisite: ACCT 421A or 521A. Tax concepts and judicial doctrines inherent in federal tax law; effects of taxation of business organization, capital structure, policies, and operation.

586 Seminar: Tax Research and Practice (4)

Prerequisite: ACCT 421A or 521A. Methodology of researching complex tax problems; tax planning; scope of activity, responsibility, and ethics of accountant in tax field.

587 Seminar: Taxation of Corporations and Shareholders (4)

Prerequisite: ACCT 421A or 521A. Statutory, regulatory, and case material applicable to corporation tax including formation, stock redemptions, and liquidations; stock dividends and preferred stock bail outs; elections under subchapters; personal holding companies, accumulated earning tax; collapsible corporations.

595 Case Studies in Accounting (4)

Prerequisite: ACCT 424A or 524A. This course teaches students how to apply the knowledge and skills they have learned from previous courses in solving real world case problems. Independent research in accounting case studies.

Division of

Administration and Counseling

Charter School of Education

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Program Advisement:

The Charter School of Education's Division of Administration and Counseling offers program advisement for the undergraduate B.S. degree in Rehabilitation Services, Master's degrees in Educational Administration and in Counseling, and advanced credential programs approved by the California Commission on Teacher Credentialing. These programs are described in this section. Other general information about credentials and degree programs can be found in the **Undergraduate Study: General Information** and **Graduate and Postbaccalaureate Study: General Information** chapters of this catalog.

Courses offered in:

Counseling (COUN)
 Educational Administration (EDAD)

Credentials Offered:

Preliminary Administrative Services (including internship); Professional Administrative Services; Pupil Personnel Services with Advanced Specializations in School Counseling and Child Welfare and Attendance Services; School Psychology and Child Welfare and Attendance Services; and School Psychology Intern.

Degrees Offered:

B.S. in Rehabilitation Services; M.S. in Counseling with options in: Applied Behavior Analysis; Counseling and Educational Leadership; Marriage, Family and Child Counseling, Rehabilitation Counseling; and School Psychology.

Certificate Programs Offered:

Applied Behavior Analysis in Educational Settings; Career Counseling

The Faculty

Professors: Gary Anderson, Martin G. Brodwin, Randy V. Campbell, Steven N. Garcia, Raymond E. Hillis (*Chair*), George K. Hong, Ruth S. Johnson, Sharon Kay Johnson, G. Roy Mayer, Lynda K. Mitchell, J. Alex Pulido, Kathryn Reilly, Marcel Soriano, Hershel Swinger.

Associate Professors: Michael J. Carter, Lori Yoonkyng Kim, Pauline Mercado, Edward Negrete, Jr., Glenda Vittimberga

Assistant Professors: Margaret Garcia.

Emeriti: Eugene Benedetti, Robert B. Benoit, Isaac Berman, V. Patricia Beyer, David Bilovsky, Helen Brocklehurst, John A. Dahl, Shirlee D. Davis, Robert G. Hadley, Harold D. Hall, Edmond C. Hallberg, Raleigh Jackson, Ralph E. Kloepper, Donald G. Mortensen, Selmer Ostlie, Gerald Prindiville, Gerald R. Rasmussen, Fred G. Rhodes, J. Leonard Steinberg, Joseph Stubbins, R. Carol Sweeney, Raymond D. Terrell, Roy Tozier, Joan B. Wilson.

Undergraduate Programs

Bachelor of Science Degree in Rehabilitation Services

The Bachelor of Science degree in Rehabilitation Services specializes in preparing students to work in a variety of occupational settings. In these settings, they will advance the independence, integration, and full participation of individuals with rehabilitation needs in the workforce and the community.

Advisement

Rehabilitation Services majors must select their adviser by the end of the first quarter of their junior year to draw up an official degree program.

Requirements for the Major (94-104 units)

The degree requires a total of 186 units of which 94-104 are in the major. The major includes 18 lower division and 60-61 upper division required units plus 16–25 units of electives. See the Undergraduate Study: General Information chapter for information about General Education and other requirements concerning the units outside the major.

Lower Division Required Courses (14 units)

COUN 200AB	Introduction to Rehabilitation Services (3, 3)
PSY 150	Introductory Psychology (4)
SOC 201	Principles of Sociology (4)

Upper Division Required Courses (64-65 units)

COUN 400AB	Lifespan Human Development (4,4)
COUN 406	Behavioral Counseling and Self-Management (4)
COUN 428	Measurement Issues in Counseling (4)
COUN 442	Medical Factors in Rehabilitation (3)
COUN 445	Developmental Self-Exploration (2)
COUN 448	Career Counseling for Adults (4)
COUN 449	Job Development and Work Evaluation (4)
COUN 494	Seminar: Rehabilitation Services (3, 3)

Upper Division Required Courses (cont'd)

COUN 495	Field Work in Rehabilitation Services (3, 3, 3)
EDFN 452	Statistics in Education (4) or
PSY 302	Statistical Methods in Psychology (5)
EDSP 400	Educational and Psychology of Exceptional Individuals (4)
ENGL 306	Technical Writing (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition, and Tobacco (4)
SOC 447	Sociology of Occupations and Professions (4)

Electives in Related Fields (16–25 units):

Select upper division courses as electives from the four groups with adviser approval.

Health Science:

HS 467	Problem Drinking and Alcoholism (3)
HS 468	Problems in Controlled Substances (3)

Psychology:

PSY 410AB	Abnormal Psychology (4,4)
PSY 442	Industrial and Organizational Psychology (4)
PSY 445	Community Psychology (4)

Sociology:

SOC 422	Social Psychology (4)
SOC 425	Medical Sociology (4)
SOC 426	Deviant Behavior (4)
SOC 430	Urban Sociology (4)
SOC 448	Social Class and Inequality (4)

Special Education:

Any 400-level course approved by adviser.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Educational Administration

The Master of Arts degree in Educational Administration offers areas of specialization in Educational Leadership and School Business Administration.

Admission to the Program

In addition to general University requirements for admission to graduate study, applicants to a master's degree or credential program must meet the following requirements:

- Completion of application to the division and assignment of permanent adviser.
- A 2.75 grade point average in the last 90 quarter units attempted.
- One year teaching experience in K-12.
- Completion of writing examinations and required inventories.
- Meeting of admission standards developed by the division (successful completion of EDAD 500).
- Counseling interviews with division chair and permanent adviser.

- A program of study approved by the permanent adviser and division chair.

Requirements for the Degree (45 units)

A minimum of 45 units is required, including at least 23 units in 500-level courses and a comprehensive examination. There is a limit on credit that may be earned in variable-unit courses. See *Restrictions on Credit Earned in Variable Unit Courses in the Charter School of Education* section of the **Academic Programs: School-based and University-wide chapter** of this catalog.

Required Courses (29 units):

EDAD 500	Seminar: Professional Assessment (2)
EDAD 505	Leadership Use of Technology and Research Methodology (5) or
EDFN 553	Educational Research and Decision Making (4) and
EDAD 536	Special Seminar : Problems in School Administration (1)
EDAD 508	Leadership for Organizational Transformation (5)

Required Courses (cont'd):

EDAD 516	Leadership in Current, Social and Political Issues (5)
EDAD 525	Leadership in Law and Finance (5)
*EDAD 570	School Leadership and Technology (5)
*EDAD 590	Seminar: Reflection and Assessment (2)

* To be taken after completion of all other core courses

Areas of Specialization (minimum 16 units)

Select one of following specializations:

Educational Leadership (16 units)**Required Courses (10 units)**

EDAD 520	Instructional Leadership (5)
EDAD 521	Leadership in Human Resource Development (5)

Electives (6 units)**Comprehensive Examination or Thesis or Project (0-7 units)**

EDAD 590	Seminar: Reflection and Assessment (2)
or	
EDAD 599A	Thesis or Project Planning (3) and
EDAD 599B	Thesis or Project (2) and
EDAD 599C	Thesis or Project (2)

Candidates taking EDAD 590 should expect to take the course the quarter they complete all coursework and must comply with division and school requirements.

School Business Administration (16 units)**Required Courses (9-15 units)**

EDAD 533, 543, 584ABCD	(3 to 9 units)
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Electives Select 1-7 units from the following:

ACCT 520, 521, 524
 CIS 527
 EDAD 539
 EDIT 553
 MGMT 573
 POLS 563

Master of Science Degree in Counseling

The Master of Science degree in Counseling includes the following options:

- Applied Behavior Analysis
- Counseling and Educational Leadership*
- Marriage, Family, and Child Counseling*
- Rehabilitation Counseling
- School Psychology

*Include school counseling focus

Admission to the Program

In addition to University requirements for admission to graduate study, students must have a 2.75 grade point average in the last 90 quarter units attempted, submit the divisional application form, take additional examinations required by the division, and be interviewed by the divisional screening committee. Successful candidates are admitted to cohort groups and must take a prescribed sequence of cohort classes.

Applications are considered once a year for admission beginning with the Fall Quarter. Application deadline for submission of complete file to division office is February 1. Later applications may be considered if space is available.

Prior to admission to the program, graduate students are encouraged to obtain preliminary advisement and begin taking

courses, not to exceed 13 units. Upon acceptance, each student is assigned a faculty adviser and a cohort group. Admission is conditional until successful completion of COUN 505 and COUN 400A or 500A.

Requirements for the Degree (55 –113 units)

A total of 55-113 units is required, depending on option selected and prior coursework completed, with at least half in 500-level courses. The School Psychology option requires at least two-thirds of the courses to be at the 500-level. The program consists of a required core, an option, related field, and clinical study, and a comprehensive examination or thesis. Students must demonstrate proficiency in statistics and may do so by completing EDFN 452. There is a limit on credit that may be earned in variable-unit courses. See *Restriction on Credit Earned in Variable Unit Courses in the Charter School of Education* section of the **Academic Programs: School-based and University-wide chapter of this catalog.**

Before students may take courses to meet the field work requirement, they must be advanced to candidacy and must be recommended by their adviser. Written applications for fieldwork must be submitted to the Division Office during the fifth week of the quarter **prior** to the quarter in which the student desires a fieldwork placement. Fieldwork application forms are available in the Division Office for an option.

Comprehensive Examination or Thesis or Project (0, 7 units)

COUN 596	Comprehensive Examination (0) or
COUN 599A	Thesis or Project Planning (3) and
COUN 599B	Thesis or Project (2) and
COUN 599C	Thesis or Project (2)

Students who select the comprehensive examination (COUN 596) must be advanced to candidacy and must comply with school and division requirements before enrolling to take the examination. These requirements include a formal application no later than March 1 for the Spring Quarter examination which is offered on the second Saturday of May, or October 1 for the Fall Quarter examination which is offered on the second Saturday of November. This application is available in the division office.

Students having research interests are encouraged to undertake the thesis. Selecting the thesis/project option may increase the number of units required for completion of the program. Students are encouraged to begin thesis planning as soon as possible.

Dual Option Requirements

Students may complete the requirements for two options of the M.S. Degree in Counseling. In such a case, both options may be pursued either simultaneously or sequentially. Some courses can count toward both options, but by University policy, the second option must include at least 23 new units. In actual practice, the second option involves more than 23 units. Students should see advisers in both options to plan dual option requirements.

Required Core (29-30 units)

COUN 400A	Lifespan Human Development (4) or
COUN 500A	Theoretical and Developmental Aspects of Behavior (5)
COUN 428	Measurement Issues in Counseling (4)
COUN 406	Behavioral Counseling and Self-Management (4) or
COUN 501	Behavior Analysis in School, Home, and Agency Settings (4)

Required Core (cont'd)

COUN 503	Sociological and Cultural Factors in Counseling (4)
COUN 505	Practicum: Counseling (3)
COUN 529	Principles of Research and Program Evaluation in Counseling (4)

Self-Development and Special Interest (6 units)

Select six units of electives related to your program with adviser approval.

Appropriate substitutions may be made in special instances with adviser recommendation and division chair approval.

Options -

Select one of following options:

Applied Behavior Analysis

(45 to 55 units plus core, to total 55 to 84 units depending upon prior coursework and selection of credential)

The program is designed for graduate students who plan to work as behavior analysts, case managers or consultants, counselors in the schools, and for those who elect to specialize in the behavioral area for doctoral training. Students may obtain the Pupil Personnel Services Credential with Advanced Authorizations in School Counseling and Child Welfare and Attendance Services by completing additional courses as listed below.

Prerequisites (8 units)

EDFN 452	Statistics in Education (4)
EDSP 400	Foundations of Special Education (4)

Required Courses (45 to 54 units)

Students who do **not** wish to obtain the Pupil Personnel Services Credential with Advanced Authorizations in School Counseling and Child Welfare and Attendance Services must complete the following:

COUN 406 or 501 (whichever is not taken to meet the core requirement), 502, 504, 591 (for 6 units), 593

PSY 417, 421, 428, 500, 528

Behavior Intervention Case Management

(47 to 55 units):

Students may elect to complete the **Behavior Intervention Case Management** emphasis within the School Counseling Program and qualify for the Pupil Personnel Services Credential with Advanced Authorization in School Counseling and Child Welfare and Attendance in addition to the Masters Degree by completing the following courses in place of the above list:

Prerequisites (11 units)

Familiarity with counseling theories, statistics, and children with special needs. These may be met by COUN 450, EDFN 452 and EDSP 400 respectively, or other courses with adviser approval.

Required Courses:

COUN 406 or 501 (whichever is not taken to meet the core requirement)

COUN 400A or 500A, 460, 502, 504, 506, 516, 517, 557, 581, 586S (for 9 units), 591 (for 6 units), COUN 592 and 593 must be counted toward the 6-unit "Special Interest" requirement in the core.

Marriage, Family, and Child Counseling

(61– 64 units plus core, to total 72 to 93 units depending upon prior course work)

This option is designed to train family systems oriented counselors who are eligible to: 1) obtain the Pupil Personnel Services Credential with Advanced Authorizations in School Counseling and Child Welfare and Attendance Services; and 2) apply for licensure in California as a Marriage, Family and Child Counselor. It meets state requirements for licensure in Marriage, Family, and Child Counseling as outlined in the Business and Professions Code, Section 4980.37. Students fulfill degree requirements by completing the required 29-unit core, plus option requirements of 61- 64 units, including either a thesis or comprehensive examination.

Prerequisites

Demonstrated proficiency in statistics, children with special needs, introductory counseling theory and child abuse. May be met by courses EDFN 452, EDSP 400 and COUN 450 and COUN 403 respectively, or other current or prior course work with adviser approval.

Required Courses (61- 64 units)

Students who do not wish to obtain the Pupil Personnel Services Credential with Advanced Authorizations in School Counseling and Child Welfare and Attendance Services must complete the following (61-62 units):

COUN 400B or 500B
 COUN 460 **or** PSY 464
 COUN 506, 507, 520, 521, 522, 523, 538,
 COUN 552 **or** PSY 542
 COUN 557
 COUN 589 (repeated for 15 units.)
 HS 456

School-Based Family Counseling (63-64 units)

Students may elect to complete training in School-Based **Family Counseling** and qualify for the Pupil Personnel Services Credential with Advanced Authorization in School Counseling and Child Welfare and Attendance Services in addition to the Masters Degree by completing the following in place of the above list (63-64 units):

COUN 403
 COUN 400B **or** 500B
 COUN 460 **or** PSY 464
 HS 456
 COUN 506, 507*, 516, 520, 521, 522, 523*, 538
 COUN 552 **or** PSY 542
 COUN 557, 581
 COUN 586S (repeated for 9 units).
 COUN 589 (repeated for 6 units) must be counted toward the "Special Interest" requirement in the core.

Students pursuing this path must take COUN 501 rather than COUN 406 in the core.

*COUN 507 and 523 may be repeated once for credit as an elective or substitute for other required courses. See adviser.

An extensive MFCC Handbook, containing detailed description of the program, required form for registering with the Board of Behavioral Science Examiners, and the Site Practicum Manual is available in the division office.

Rehabilitation Counseling

(48-49 units plus core, to total 63 to 78 units depending upon prior course work)

The Rehabilitation Counseling program prepares students to: a) function effectively as professional rehabilitation counselors in a variety of employment settings; and b) develop their own skills to function effectively at the time of graduation and beyond as the profession changes. Rehabilitation counselors must be knowledgeable in vocational and personal potentialities in order to carry on their main function of helping individuals to achieve satisfaction in areas including work, education, and personal social functioning. The program is accredited by the Council of Rehabilitation Education (CORE). The Master of Science degree in Counseling: Option in Rehabilitation offers concentrations in Student Development Counseling and in Transition Services.

Required Courses (48-49 units)

COUN 400B or 500B
COUN 442, 448, 449, 506, 540AB, 542AB
COUN 588 (repeated for 15 units)

Concentrations:

Student Development Counseling

(52-59 units plus 29 unit core, to total 81 to 88 units depending on prior coursework)

The Student Development Counseling Concentration in the Rehabilitation Counseling program is designed to train students to work in higher education colleges and universities with an emphasis in disability. These students will be competent in: 1) providing and designing effective counseling services to higher education students; 2) evaluating social, psychological, educational, vocational and cultural issues as related to students with and without disabilities; and 3) assisting students to make the transition from high school to post-secondary education and beyond.

Core Courses (29 units)

COUN 400A, 406, 428, 503, 505 and 529

Electives (6 units)

Rehabilitation Counseling students with a Concentration in Student Development Counseling must take COUN 510 and 587.

Required Concentration Courses (52-59 units)

COUN 400B, 442, 448, 449, 506, 540AB, 542AB, 588, 596 or 599ABC and EDSP 581

Transition Services (52-59 units)

The Transition Services Concentration in the Rehabilitation Counseling program trains transition specialists to be competent in: 1) providing and designing appropriate and effective transition services to secondary students with disabilities; 2) evaluating transition plans in light of collaboration among professionals including business and community leaders as well as parents, teachers, and other related service professionals in the multicultural/multilingual urban setting; and 3) conducting research in the transition field.

Core Courses (29 units)

COUN 400A, 428, 501, 303, 505 and 529

Electives (6 units)

Rehabilitation Counseling students with a concentration in Transition Studies must take EDSP 581 and 584.

Required Concentration Courses (52-59 units)

COUN 400B, 442, 448, 449, 506, 540AB, 542AB, 588 (15 units), 596 or 599ABC, EDSP 400

Combined Programs

Counseling and Educational Leadership

(72-73 units plus core, to total 55 to 96 units depending upon prior course work)

This combined program is designed for future school counselors or administrators and other individuals who wish to develop a combination of counseling and administrative skills and earn the Master of Science degree in Counseling: Option in Counseling and Educational Leadership. Students who complete this option also qualify to apply for the Pupil Personnel Services credential with advanced specializations in School Counseling and Child Welfare and Attendance Services and the Preliminary Administrative Services Credential. Students who select this program recognize the challenges of today's urban schools and foresee the synergism possible when combining the skills and roles of an effective counselor with those of an effective leader. Students complete the counseling core, and the following requirements for the option.

Requirements for the Degree and Credential

(72-73 units plus the core)

Prerequisites

Demonstrated proficiency in introductory counseling theories, statistics, and children with special needs. May be met by courses COUN 450, EDFN 452 and EDSP 400 or other current or prior course work with adviser approval.

Required Courses (72-73 units plus core)

COUN 400B Lifespan Human Development (4) **or**
COUN 500B Theoretical and Developmental Aspects of Behavior (5)
COUN 506 Individual Counseling Strategies (4)
COUN 507 Individual Clinical Counseling (3)
COUN 516 Group Counseling (4)
COUN 517 Group Counseling Practicum (3)
COUN 536 Consultation in the Schools (3)
COUN 557 Career Education and Guidance in the Schools (4)
COUN 581 Seminar: Pupil Personnel Services (4)
COUN 586S Supervised Field Experience in School Counseling (9)
EDAD 508 Leadership for Organizational and Cultural Change (5)
EDAD 525 Leadership in Law and Finance (5)
EDAD 570 School Leadership and Technology (5)
EDAD 520 Instructional Leadership (5)
EDAD 521 Leadership in Human Resource Development (5)
EDAD 581 Field Work in Educational Administration (2, 2, 2)
EDAD 590 Seminar: Reflection and Assessment (2)
EDSP 501 Problems and Practices in Special Education (3)

School Psychology

(83 units plus 30-unit core, to total 72 to 113 units depending upon prior course work)

School psychologists focus on the psychoeducational development of individuals from birth to age 21, their abilities and potentialities, biological, emotional, behavioral, and cultural factors that influence the learning process. Students who earn the master's degree with this option also qualify for the Pupil Personnel Services credential with advanced specializations in School Psychology and advanced specialization in Child Welfare and Attendance Services. Students in this option should see information below regarding the School Psychology Internship credential. For accreditation

reasons, undergraduate student access to 500-level courses in this program is not permitted.

Note: School psychology students must take COUN 500A rather than COUN 400A in the core.

Required Courses (83 units)

COUN 460, 502, 506, 522, 531AB, 532, 533, 534, 535, 581, 585, 586P (for 30 units), 592, 593

Students must take COUN 501 instead of 406 and 500A instead of 400A to meet the core requirement, and take COUN 507 to meet 3 units of the "Special Interest" core area.

An internship manual, which contains guidelines, procedures, and other information, is available in the division office.

Credential Programs

Preliminary Administrative Services Credential

Regulations, policies, and procedures governing the program for the Preliminary Administrative Services credential, available from the division office, were developed in accordance with guidelines developed by the California Commission on Teacher Credentialing. The program is based on a set of competencies necessary for successful performance as a California school administrator. The credential licenses students for all administrative and supervisory services, prekindergarten through grade 12, in California public schools. This credential is valid for 5 years.

Upon completion of the program, receiving division recommendation and submitting an application and attendant fees, candidates receive a Certificate of Eligibility for the Preliminary Administrative Services Credential. The certificate authorizes one to seek initial employment as an administrator, but does **not** authorize ongoing administrative service.

Minimum Credential Requirements (45 units)

The following requirements are subject to change without notice. Students should consult the division for current requirements. Minimum requirements for issuance of the Preliminary Administrative Services Credential include:

- Forty-five units of acceptable postbaccalaureate course work as listed below.
- A master's degree.
- Completion of the required courses.
- Satisfaction of the California state requirement of training in special education.
- A passing score on the California Basic Educational Skills Test (CBEST).
- Three years of successful classroom teaching experience.
- Completion of writing examinations and inventories required by the division.
- California Teaching Credential.

Required Courses (46 units)

EDAD 500 Seminar: Professional Assessment (2)
 EDAD 505 Leadership Use of Technology and Research Methodology (5) **or**
 EDFN 553 Educational Research and Decision Making (4) **and**
 EDAD 536 Special Seminar: Problems in School Administration (1)

Required Courses (cont'd)

EDAD 508 Leadership for Organizational Transformation (5)
 EDAD 516 Leadership in Current, Social and Political Issues (5)
 EDAD 520 Instructional Leadership (5)
 EDAD 521 Leadership in Human Resources (5)
 EDAD 525 Leadership in Law and Finance (5)
 EDAD 570 School Leadership and Technology (5)
 EDAD 581 Clinical Internship (3)
 EDAD 590 Seminar: Reflection and Assessment (2)
 EDSP 501 Problems and Practices in Special Education (4)

Electives (5 units)

Internship Program

This program provides opportunities for school districts to cooperate with the division in providing internship experiences for selected individuals.

The program offers opportunities for individuals with high potential to perform administrative/supervisory functions under close University supervision while completing course requirements for the Preliminary Administrative Services credential. Persons interested in specific details of the program should contact the division office.

Professional Administrative Services Credential

The purpose of the program is to provide education and training for new and aspiring administrators. The program is based on a set of competencies considered necessary for successful performance as a California school administrator. The credential licenses holders to perform all administrative and supervisory services in grades prekindergarten–12 in California public or private schools.

Prerequisites:

- A master's degree.
- A Preliminary or Clear Administrative Services credential issued under present or prior regulations.
- Passing score on UNIV 400, the Writing Proficiency Examination (WPE) or acceptable alternative by petition.
- Passing score on California Basic Educational Skills Test (CBEST); and
- Completion of written examinations and inventories required by the division.

Minimum Credential Requirements (24-36 units)

- Twenty-four to thirty-six units of postbaccalaureate course work as listed below;
- Satisfaction of all program standards;
- Completion of written examinations and inventories required by the division;
- A minimum of two years of successful, full-time school administrative experience in the public schools or in private schools of equivalent status; and
- Written verification from your employing school district, or an official of the appropriate county office of education, or successful completion of your program plan.

Required Core (15-19 units)

EDAD 552	Seminar: Instructional and Organizational Change in Socio-Culturally Diverse Schools (6)
EDAD 545	Seminar: Technology for Instructional and Organizational Change (3)
EDCI 535	Instructional Strategies for Teaching Cultural Awareness (4)
EDSE 590	Teaching in Multicultural Secondary Classrooms (4) or Demonstration of Cross Cultural, Language and Academic (CLAD) competencies.
EDAD 594	Development of the Induction Plan (3)
EDAD 595	Seminar: Candidate Assessment (3)

Elective Courses (6-21 units)

EDAD 533	Legal Research in EDAD (3)
EDAD 539	Leadership through Personnel and Contract Administration (3)
EDAD 543	Advanced Fiscal Management (3)
EDAD 582	Practicum (3, 3, 3) May be repeated up to 12 units. or 120 hours of administrative non-university activities.

Other electives may be selected with the approval of adviser.

Pupil Personnel Services Credential***Advanced Specializations in School Counseling and Child Welfare and Attendance Services***

The School Counseling program offers three areas of emphasis, each of which combines the Pupil Personnel Services credential (with Advanced Authorizations in School Counseling and Child Welfare and Attendance Services) with an option of the M. S. Degree in Counseling. These areas of emphasis are designated as follows:

- Behavior Intervention Case Management: Combines the credential with the M.S. Degree in Counseling: Option in Applied Behavior Analysis;
- School-Based Family Counseling: Combines the credential with M.S. Degree in Counseling: Option in Marriage and Family Counseling.
- Counseling and Educational Leadership: Combines the credential with the M.S. Degree in Counseling: Option in Counseling and Educational Leadership; and includes the Preliminary Administrative Services Credential as well.

For details on course requirements, see the listings for these combinations under the respective options of the degree, as described earlier.

The program does not routinely offer the credential separately from the masters degree because most career opportunities require the degree. Candidates who already have a Master of Science Degree in Counseling and wish to earn this credential without the accompanying degree should inquire at the Division office about current policy regarding such candidacy, which is based upon available resources and space in required courses.

If resources allow, the requirements for the Pupil Personnel Services credential with Advanced Specializations in School and Child Welfare and Attendance Services, without the master's degree, involve the completion of the following program with grades of A or B in all courses.

Prerequisites (11 units)

Demonstrated proficiency in statistics, introductory counseling theories and children with special needs. May be met by courses EDFN 452, COUN 450 and EDSP 400 respectively, or other current or prior course work with adviser approval.

Required Courses (59–62 units)

COUN 400AB	Lifespan Human Development (4,4)
COUN 500AB	Theoretical and Developmental Aspects of Human Behavior (5,5)
COUN 428	Measurement Issues in Counseling (4)
COUN 460	Laws Relating to Children and Child Welfare (4) or
EDAD 525	Leadership in Law and Finance (5)
COUN 501	Behavior Analysis in School, Home, and Agency Settings (4)
COUN 503	Sociological and Cultural Factors in Counseling (4)
COUN 505	Practicum: Counseling (3)
COUN 506	Individual Counseling Strategies (4)
COUN 516	Group Counseling (4)
COUN 517	Group Counseling Practicum (3) or
COUN 523	Family Counseling Laboratory (3)
COUN 529	Principles of Research and Program Evaluation in Counseling (4)
COUN 557	Career Education and Guidance in Schools (4)
COUN 581	Seminar: Pupil Personnel Services (4)
COUN 586S	Supervised Field Experience in School Counseling (9)

All courses are competency based. Students who fail to meet all course competencies receive less than a B grade. Deficiencies must be cleared in order to obtain a "Letter of Competency" for the affected course. In addition to demonstrating competency in course work and internship, students are required to pass the California Basic Educational Skills Test (CBEST) and either pass an oral examination covering the *School Counseling* competencies or complete requirements for the Master's degree in Counseling.

Advanced Specializations in School Psychology and Child Welfare and Attendance Services

Course requirements for this credential are identical with those listed above for the M.S. in Counseling: Option in School Psychology except that an oral exit examination may be substituted for the comprehensive examination.

School Psychology Internship Credential

This credential allows a student to accept employment as a School Psychology Intern while completing advanced coursework toward the School Psychology option of the M.S. degree in Counseling. Students are not admitted to the School Psychology Internship unless they have met *all requirements* for the M.S. degree in Counseling: Option in School Psychology, *except* for the courses COUN 533, 534, 585 and 586P, in addition to the requirements described in their School Psychology Internship Manual. Once these requirements are met, the student is eligible for the School Psychology Internship Credential. These remaining courses are taken concurrently with internship (or before) along with regular supervisory meetings with the student's University supervisor.

Continued Professional Development

Competence in the helping professions requires continuous efforts at self improvement and development of skills. To assist practicing counselors, school psychologists, and other educators in improving their professional skills, the Counselor Education faculty has developed the following programs of continued professional development leading toward certificates.

The programs provide an opportunity for educational practitioners to meet with their colleagues to keep abreast of innovative professional developments and to experience stimuli for continued personal and professional growth.

Certificate Programs

Applied Behavior Analysis in Educational Settings

This credit certificate program is designed to prepare Behavioral Intervention Specialists, and provides practitioners an opportunity to develop skills for implementing and evaluating management, motivation, consultation, and teaching. The certificate is awarded upon the completion of the following courses in counselor education (18 units) with a minimum B (3.0) average. Refer to the Graduate and Postbaccalaureate Study chapter of this catalog for general regulations governing all certificate programs.

Requirements (18 units)

- COUN 501 Behavior Analysis in School, Home, and Agency Settings (4)
- COUN 502 Advanced Behavioral Contingency Management in Schools (4)
- COUN 504 Advanced Topical Study in Application of Behavior Analysis to Education (4)
- COUN 592 Behavior Interventions for Severe Behavior Problems (3)
- COUN 593 Practicum: Staff Development and Consultation (3)

Career Counseling

This program provides postbaccalaureate students the competencies needed to succeed in the field of career counseling. In addition to general individual and group counseling skills, students will acquire competencies in the areas of theories of career development, assessment of interests, values, and aptitudes, occupational information, decision-making, placement, and career counseling for special populations. Professional standards in the field generally require that candidates also possess a Master of Science in Counseling for employment.

The certificate requires completion of 30–32 units, including 20 units of required courses and 10–12 units of electives, with a minimum B (3.0) average. Refer to the **Graduate and Postbaccalaureate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements (30–32 units)

Prerequisites (7 units)

- COUN 428 Measurement Issues in Counseling (4)
- COUN 505 Practicum: Counseling (3)

Required Courses (20 units)

- COUN 448 Career Counseling for Adults (4)
- COUN 506 Individual Counseling Strategies (4)
- COUN 516 Group Counseling (4)
- COUN 557 Career Education and Guidance in Schools (4)
- SOC 447 Sociology of Occupations and Professions (4)

Electives (10–12 units)

Select from the following with adviser approval. Other courses may be substituted with adviser approval.

- COUN 449, 475B, 507
- EDSP 405
- MGMT 469
- PSY 446

The Counseling and Assessment Clinic

The Counseling and Assessment Clinic is operated by the Division of Administration and Counseling, and is located in King Hall C1067. It is an instructional laboratory that provides both training for counselors and counseling services to the community. Students working toward a master's degree or credential in counseling serve as student clinicians under direct faculty supervision.

The Diagnostic Resource Center

The Diagnostic Resource Center (DRC) is located in King Hall C1063. It provides a lending service for psychological and educational assessment materials to qualified students for class and internship related activities.

List of Courses - Undergraduate Level

Counseling (COUN)

Lower Division

101 Career Decision Making (3)

Development of decision-making skills applied to college major and career objectives. Graded CR/NC.

200AB Introduction to Rehabilitation Services(3, 3)

Introduction to the profession of vocational and personal rehabilitation; characteristics of the "helping" process; qualities of "helper" techniques for working with people; exploration of settings that offer services. Field visits to agencies.

Upper Division Courses

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

403 The Psychosocial Dynamics of Child Maltreatment and Family Violence (4) (also listed as PSY 403)

Prerequisite: PSY 150. Psychosocial factors in child maltreatment and family violence: developmental considerations, assessment, interventions, legal and ethical issues, research findings, and community resources.

400AB Lifespan Human Development (4,4)

Theories of human development, including stages of personality, cognitive, career and social development across the lifespan.

406 Behavioral Counseling and Self-Management (4)

Prerequisite: PSY 150. Application of principles of learning personal counseling and behavioral self-control programs.

428 Measurement Issues in Counseling (4)

Prerequisite: EDFN 452 or PSY 302. Principles, procedures, and ethical considerations underlying data collection and interpretation for purposes of client assessment in counseling settings.

442 Medical Factors in Rehabilitation (3)

Selected facets of medical, developmental, and administrative factors in the rehabilitation process, including medical terminology, specialties in medical practice, and workers' compensation law. Implications for rehabilitation counseling. Lectures, case discussions, field trip.

445 Developmental Self Exploration (2)

Personal attitudes, values, communication style, and professional development related to becoming a helping professional. Development of skills in building relationships, resolving conflicts, analyzing and synthesizing feedback from others. Graded CR/NC.

448 Career Counseling for Adults (4)

Vocational counseling of college students, rehabilitation clients, persons making midcareer changes, and returning homemakers; emphasis on career development theory, occupational information, job analysis, and job placement.

449 Job Development and Work Evaluation (4)

Prerequisites: COUN 428, 448; instructor consent. Methods for identifying, evaluating, and enhancing employment opportunities for people with physical, emotional, and mental disabilities; job analysis, work evaluation, employer development, job modification, assistive devices, community resources, placement planning, and work adjustment.

450 Counseling Theories (3)

Prerequisite: All GE requirements. Theories of counseling appropriate for individual and group work; functions of theory in research and practice including substance abuse counseling; background for subsequent training in group counseling methods and individual counseling.

460 Laws Relating to the Child and Family (4)

Legal and ethical guidelines for counselors, therapists, and child development practitioners; laws related to the family including marriage, divorce, and assessment and reporting of child abuse.

479 Counseling Older Adults (4)

Counseling issues in adult development and aging from a multidisciplinary perspective in context of biomedical, psychological, social, economic, political, environmental aspects; strategies for individual, family, and group counseling with older adults.

480 Fundamentals of Counseling (4)

Skills in listening and communicating for working effectively with those seeking counseling assistance.

484 Conferences with Parents/Primary Caregivers (4)

Research-based processes that facilitate student academic, emotional and social growth through parental involvement, including family and study rituals, motivation, self-esteem, assisting with homework, monitoring student progress and school-home community partnerships.

489 Behavior Management Using Reinforcement in Classrooms (4)

Prerequisite: PSY 150. Constructive approaches to classroom management using individual and group reinforcing contingencies for preschool through high school age students.

490 Problems in Guidance (1-5)

Prerequisite: Instructor consent. Investigation of unique problems in guidance as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

494 Seminar: Rehabilitation Services (3)

Prerequisites: COUN 200AB; prerequisites or corequisites: COUN 406, 447, 448. Enhancement and integration of techniques and skills needed for effective functioning in the field. May be repeated to maximum of 6 units.

495 Field Work in Rehabilitation Services (3-9)

Prerequisites: Admission to Rehabilitation Services major, COUN 200AB, consent of field work supervisor; prerequisites or corequisites: COUN 406, 448; corequisite: COUN 494. Field placement arranged congruent with option area selected. Graded CR/NC.

499 Undergraduate Directed Study (1-4)

Prerequisites: Instructor consent to act as sponsor and consent of division chair. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Educational Administration (EDAD)

Upper Division Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

480 Institutional Racism and Schools (4)

Institutional racism and its perpetuation in U.S. schools, while developing a definition of this concept and specific strategies for the elimination or reduction of institutional racism

Graduate Level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

Counseling (COUN)

500AB Theoretical and Developmental Aspects of Behavior (5,5)

Study of psychological, social and cognitive developmental themes in childhood. Emphasis on issues related to counseling and school psychology.

501 Behavior Analysis in School, Home, and Agency Settings (4)

Prerequisite: COUN 406 or 489 or EDSP 402 or PSY 428. Principles and application of behavioral contingency management procedures.

502 Advanced Behavioral Contingency Management in Schools (4)

Prerequisites: 501, instructor consent. Behavioral research, ethics, and recent developments in applying behavioral procedures to school and consulting relationships.

503 Sociological and Cultural Factors in Counseling (4)

Effect of social environment and cultural group membership on behaviors related to counseling; relationship of social and cultural background to counseling theory and techniques to our changing cultures; implications of crosscultural research for counseling practice.

504 Advanced Topical Study in Application of Behavior Analysis to Education (4)

Prerequisite: COUN 502. In-depth study of particular topics within behavior analysis. May be repeated to maximum of 8 units as subject matter changes.

505 Practicum: Counseling (3)

Corequisites: COUN 405A; admission to a degree or credential program or employment as a counselor. Practical experience preparatory to working with clients, knowledge and skills in listening and helping. Students initiate a professional portfolio and develop a plan for gaining necessary counseling competencies. Graded CR/NC.

506 Individual Counseling Strategies (4)

Prerequisites: COUN 405A, 505; instructor consent. Techniques in individual counseling that apply to specific settings or derive from specific theories of counseling.

507 Individual Clinical Counseling (3)

Prerequisites: COUN 428, 447, or 448; 406 or 501; 505, 506; instructor adviser consent; prerequisite or corequisite: COUN 428. Supervised individual career and personal counseling through the campus Counseling and Assessment Clinic. Students implement theory, develop case management strategies, and develop their own counseling behavior. Lecture 1 hour, clinical field experience 3 hours scheduled plus 3 hours arranged. May be repeated to a maximum of 6 units for credit. Graded CR/NC.

510 Counseling Students in Higher Education (4)

Characteristics and problems of American college students; impact of college life on individual, psychosocial aspects of student culture and college environment as well as cultural differences.

514 Stress Counseling (4)

Prerequisite: COUN 405A. Familiarization with assessment and management techniques related to client stress in a variety of settings such as schools, colleges, and rehabilitation agencies.

516 Group Counseling (4)

Prerequisites: COUN 405A; 406 or 501; 505. Theory and practice of group processes, leadership, membership skills; group skills appropriate to school, college, agency settings; counseling group and guidance group processes; current research in group theory and practice.

517 Group Counseling: Practicum (3)

Prerequisite: COUN 516. Supervised group counseling through campus' Counseling and Assessment Clinic or local school or agency. Lecture 1 hour, 6 hours approved clinical experience. May be repeated once for credit. Graded CR/NC.

520 Introduction to Family Evaluation and Counseling (4)

Prerequisites: COUN 506, 507; corequisite: COUN 523. Introduction to major counseling theories and practices for working with relationships in family contexts; focus on methods of initial family assessment and family counseling with individual family members.

521 Advanced Family and Marriage Counseling (4)

Prerequisite: COUN 520; corequisite: COUN 589. Approaches to joint family counseling and marriage counseling within family systems framework.

522 Family Counseling with Children (4)

Prerequisite: COUN 589 or 586. Theory and methods of counseling children in families; includes assessment and study of child's role in family structure; applications of verbally- and activity-based therapy.

523 Family Counseling Laboratory (3)

Prerequisites: COUN 406 or 501; 507; corequisite: COUN 520. Supervised counseling of couples and families utilizing strategies and techniques of systems theory; practical experience designed to enhance students' skills as family counselors. Lecture 1 hour, laboratory 3 hours. May be repeated to maximum of 6 units.

529 Principles of Research and Program Evaluation in Counseling (4)

Prerequisite: EDFN 452 or PSY 302. Principles, procedures, and ethical considerations underlying collection, analysis, and interpretation of data for research and evaluation of counseling programs.

531AB Individual Testing and Case Study Techniques (4, 4) (also listed as PSY 531AB)

Prerequisites: PSY 430 or COUN 428 plus one of following sequences: PSY 410AB and 438; 410AB and 431; 418AB and 431; or PSY 410A and COUN 405A or B, 428A, and 501. Intensive practice in administration and interpretation of better known testing devices for mental ability, perceptual and motor functioning, and personality dynamics, with attention to integration of results in case studies. Lecture 3 hours, laboratory 3 hours.

532 Diagnosis of Learning Problems and Remedial Procedures (4)

Prerequisite: COUN 531B. Methods used by classroom teachers and school specialists in diagnosis and remediation of learning disabilities.

533 Psychological Testing Applied to Mentally, Physically Atypical (4)

Prerequisite: COUN 531B. Selection, administration, and interpretation of tests used for appraising the atypical individual. Lecture 3 hours, laboratory 3 hours.

534 Methods of Personality Assessment (4) (also listed as PSY 534)

Prerequisite: COUN 531AB. Study and evaluation of current personality tests, objective and projective. Administration, scoring, interpretation, and reporting of results; findings of empirical research. Lecture 3 hours, laboratory 3 hours.

535 Alternative Assessment (3)

Prerequisite: COUN 531A. Selection, educational implications, and use of alternative assessment techniques and findings; implications for least restrictive placement.

536 Practicum: School-Based Consultation (3)

Prerequisites: COUN 405A, COUN 501, COUN 505. Conceptual basis for school-based consultation including knowledge about preventive approaches applicable for use in school settings. Students will initiate and carry out a consultation role with assigned teachers.

538 Seminar: Methods of Diagnostic Assessment in Counseling (4)

Prerequisites: COUN 428, 506; PSY 410A or B. Use of statistical and clinical methods as bases for diagnostic appraisal in counseling; emphasis on individual case reports. Includes utilization of current versions of professionally mandated resources like the APA Diagnostic and Statistical Manual (DSM).

540AB Foundations of Rehabilitation (4, 4)

Prerequisite: Admission to graduate rehabilitation option. Introduction to rehabilitation counseling profession, including study of roles and functions of rehabilitation counselors, case management, and impact of disability on individual's psychological, physical, and social life. Participation in field observation required.

542AB Medical Aspects of Disability (3, 3)

Review of literature and research implications for rehabilitative counseling of major physical and psychiatric conditions leading to disablement; etiology, therapy, and prognosis of rehabilitation.

552 Counseling and Human Sexuality (4)

Prerequisites: COUN 405A or 405B; 450 or 480 or 506 or 508; corequisite: SOC 421. Latest developments in theory and research in area of human sexuality as these pertain to role of counselor.

557 Career Education and Guidance in Schools (4)

Career education and guidance covering elementary through high school years. Use of activities, theory, and information in the construction of career education programs.

581 Seminar: Pupil Personnel Services (4)

Prerequisite or corequisite: COUN 586. Organization, administration, and evaluation of comprehensive, competency-based pupil personnel programs. Program development and implementation; collaboration with school administration, other helping professionals and community; child welfare and attendance procedures and laws.

583 Preventive Counseling (4)

Prerequisites: COUN 405A, 503. Proactive model of counselor service delivery, developmental interventions that simulate academic, affective and career development through didactic and experiential learning activities. Guidance classroom units, career portfolios and monitoring student progress.

585 Seminar: School Psychology (4)

Prerequisite: Instructor consent; corequisite: COUN 586P. History and foundations of school psychology. Legal, ethical and professional issues and standards. Roles and functions of the school psychologist.

586 Supervised Field Experience in Pupil Personnel Services (2–10)

Prerequisite: Admission by application filed with division by fifth week of preceding quarter and approved by adviser and division associate chair. Supervised field experience in school counseling, higher education counseling, or school psychology involving work with pupils, parents, teachers, administrators, community agencies, and others. Graded CR/NC. May be repeated to maximum of 30 units. Candidates for Services credential with Pupil Personnel Services specialization enroll in an appropriate field experience as follows:

586C Higher Education Counseling**586P School Psychology Internship****586S School Counseling****587 Seminar: Higher Education Counseling (4)**

Prerequisites: Advancement to candidacy in Higher Education Counseling option and instructor consent. Examination and investigation of critical issues in higher education counseling. Seminar reports required.

588 Supervised Practice in Rehabilitation Counseling (3–10)

Prerequisites: COUN 505, instructor consent, application filed with division by fifth week of preceding quarter. Supervised professional experience. One unit requires 40 hours of practice. Graded CR/NC. May be repeated to maximum of 15 units.

589 Site Practicum in Marriage, Family, and Child Counseling (3–5)

Prerequisites: COUN 505, 520; corequisite: COUN 521 or 522; admission by application filed with division by fifth week of preceding quarter. Supervised counseling involving work with individuals, children, couples, and families. Graded CR/NC. May be repeated to maximum of 15 units.

590 Special Topics in Counselor Education (1–4)

Prerequisite: Consent of division chair. Intensive study of designated problems in counselor education. May be repeated for credit as subject matter changes.

591 Supervised Field Experience in Applied Behavior Analysis (3)

Prerequisites: COUN 593, application filed with division by fifth week of preceding quarter. Supervised professional experience; one unit requires 40 hours of practice. Graded *CR/NC only*. May be repeated to maximum of 6 units.

592 Behavior Interventions for Severe Behavior Problems (3)

Prerequisites: COUN 501; recommended prerequisite: COUN 502. Biological, psychological and developmental factors affecting severe behavior problems. Emphasis is on conducting functional analysis assessments and on programs for specific severe behavior problems.

593 Practicum: Staff Development and Consultation (3)

Prerequisites: COUN 502, 586S. Practical experience consulting with parents and teachers regarding behavior management problems and assisting school personnel in providing in-service training. Lecture 1 hour, clinical field experience 3 hours scheduled plus 3 hours arranged. May be repeated to a maximum of 6 units for credit. Graded *CR/NC*.

597 Graduate Research (1–4)

Prerequisites: COUN 529, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded *CR/NC*.

Educational Administration (EDAD)

500 Seminar: Professional Assessment (2)

Candidates assess their strengths and develop a plan for professional and academic growth. Candidates plan portfolios to be assessed in EDAD 590.

505 Leadership Use of Research Methodology (5)

Prerequisite: EDAD 500. Use of information technology to facilitate education research (including 15 hours of field work).

508 Leadership for Organizational Transformation (5)

Prerequisite: EDAD 500. Theories, research, and practice in leadership, administrative process redesign, and technology for organizational transformation (including 15 hours of fieldwork).

516 Leadership in Current, Social and Political Issues (5)

Prerequisite: EDAD 500. Social, political, and historical forces affecting education and their effect on leadership trends, legislation, research and societal issues (including 15 hours of fieldwork).

520 Instructional Leadership (5)

Prerequisites: EDAD 500, EDIT 430 or equivalent. Curricular skills in implementation and evaluation of instructional programs (including 15 hours of fieldwork).

521 Leadership in Human Resource Development (5)

Prerequisites: EDAD 500, EDIT 430 or equivalent. Leadership skills in attracting, developing and instructing personnel (including 15 hours of fieldwork).

525 Leadership in Law and Finance (5)

Prerequisite: EDAD 500. Legal and financial issues related to diverse student populations and related school practices; cultural democracy emphasized (including 15 hours of fieldwork).

598 Graduate Directed Study (1–4)

Prerequisites: A *B* (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599A, Thesis or Project Planning (3)

Prerequisites: EDFN 452 and 500, or EDFN 553, or COUN 529, advancement to candidacy, written approval of thesis chair. Prior to completion, students will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded *CR/NC*.

599B, Thesis or Project (2)

Prerequisites: COUN 599A, written approval of thesis committee chair. Prior to completion, student will have submitted final draft of thesis or project proposal to thesis committee. Graded *CR/NC*.

599C, Thesis or Project (2)

Prerequisites: COUN 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded *CR/NC*.

533 Legal Research in Educational Administration (3)

Prerequisite: Effects of laws, legal materials, judicial decisions on school operations. Techniques of legal research and its relation to school administration.

536 Special Seminar: Problems in School Administration (1–5)

Prerequisite: Administrative Services credential. Theoretical and practical aspects of special problems in school administration; specific topic announced in *Schedule of Classes*. Course does not meet credential requirements. May be repeated to maximum of 5 units.

539 Seminar: Leadership through Personnel & Contract Administration (3)

Prerequisites: Admission to EDAD Professional Credential Program; EDAD 509. Examination of the practices and procedures affecting employer-employee relationships in the collective bargaining process and contract administration.

543 Seminar: Advanced Fiscal Management (3)

Prerequisites: EDAD 539. Theory and practices of school business and facility management including accounting, purchasing, and supply management; evaluation, maintenance, and function of educational facilities and their interrelationships. Lecture (3 units) required; 10 hours of administrative-related field activities required.

545 Seminar: Technology for Instructional and Organizational Change (3)

Prerequisites: Admission to EDAD Professional Credential Program, computer literate and computer competent. Principles related to the management of information systems and instructional technologies for effective educational leadership.

552 Seminar: Instructional and Organizational Change in Socio-Culturally Diverse Schools (3)

Prerequisite: Admission to EDAD Professional Credential Program. A hands-on approach to relevant organizational theories for creating change to meet the needs of socio-culturally diverse schools and communities.

570 School Leadership and Technology (5)

Prerequisites: EDAD 500, 505 or EDFN 553, 506, 515, 520, 521, 525; EDIT 430 or its equivalent. Functional knowledge about the selection of technology for school site use (15 hours of fieldwork).

581 Clinical Internship (3)

Prerequisites: EDAD 500, 505, 508, 516, 520, 521, 525. Administrative, supervisory and curricular experience at school or district levels. May not be repeated for credit.

582 Practicum: Field Work (3)

Prerequisites: Admission to EDAD Professional Credential Program; EDAD 594. Practical experience in applying principles, practices and procedures of school sites and district offices. May be repeated to maximum of 12 units for credit.

584 Field Work in Central Office Administration and Supervision (3)

Prerequisites: Admission to central office administration option, division approval. Intensive and extensive participation in general school administration; areas of emphasis determined in consultation with adviser. *Graded CR/NC.* May be repeated to maximum of 12 units for credit.

587 Internship in Educational Administration (3)

Prerequisites: Admission to internship program, approval of both division and school district. Participation in school administration and supervision in school district where student is employed; supervision by on-site administrator and university instructor; regular seminar sessions. *Graded CR/NC.* May be repeated to maximum of 12 units for credit.

590 Seminar: Reflection and Assessment (2)

Candidates present evidence and assessment of professional and academic growth maintained during program. (*Graded CR/NC.*)

594 Seminar: Development of Induction Plan (3)

Prerequisite: Admission to EDAD Professional Credential Program. The candidate, University adviser and district mentor develop an individualized induction plan for the support and professional development of the beginning administrator.

595 Seminar: Candidate Assessment (3)

Prerequisite: Completion of induction plan. The candidate, the University adviser and the district mentor assess the induction plan for the candidate to be recommended for the Professional Administrative Services Credential.

597 Graduate Research (1-4)

Prerequisites: EDFN 500 or instructor consent to act as sponsor, division approval of project before registration. Independent research under guidance of faculty. May be repeated for credit. *Graded CR/NC.*

598 Graduate Directed Study (1-4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599A, Thesis or Project Planning (3)

Prerequisites: EDFN 452 and 500, or EDFN 553, or COUN 529, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. *Graded CR/NC.*

599B, Thesis or Project (2)

Prerequisites: EDAD 599A, written approval of thesis committee chair. Prior to completion, student will have submitted a final draft to thesis or project proposal to thesis committee. *Graded CR/NC.*

599C, Thesis or Project (2)

Prerequisites: EDAD 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. *Graded CR/NC.*

Department of**Anthropology**

School of Natural and Social Sciences

DEPARTMENT OFFICE

King Hall C4068

Phone: (323) 343-2440

E-mail: anthro@calstatela.edu

http://web.calstatela.edu/academic/anthro/

The Department of Anthropology offers a wide range of courses in the biological origins and variation of humankind, the archaeological record, and particularly, the comparative study of contemporary cultures. The department offers courses that support programs in the social, behavioral, and life sciences. In addition to preparing students for advanced study or a professional career in anthropology, the degree provides a broad liberal education appropriate to careers in business, law, medicine, government service, and teaching.

The Faculty

Professors: Norman Klein (*Chair*), Jon L. Olson, Elliott Oring.

Associate Professors: Raquel Ackerman, Jim R. Bell, Patricia Martz, ChorSwang Ngin.

Assistant Professors: James Brady, Elizabeth Miller.

Emeriti: Robert H. Ewald, Catherine Martin, Arthur H. Niehoff, Fred M. Reinman, Mary Elizabeth Shutler, Jeannette R. Witucki.

Undergraduate Programs**Bachelor of Arts Degree**

The Bachelor of Arts degree in Anthropology is available for those who seek a liberal arts education or who wish to prepare for advanced study and research.

Departmental Honors Program

The Department of Anthropology offers an honors program for students who have completed at least 16 upper division units in anthropology, who have a minimum 3.25 grade point average in all anthropology courses, and who possess a minimum 3.0 grade point average in all college work. Application to the program is made by written petition.

The program is designed to introduce superior students to intensive research experience in anthropology and related fields, as well as to more sophisticated and thorough study of anthropological theory in relevant subareas of the discipline. Honors students are permitted to depart from the normal major program in various ways to broaden and enrich their curriculum.

Honors students plan their programs in consultation with an honors adviser. Students enroll during each of their final three quarters in ANTH 396, and submit a written thesis to the departmental honors committee. Diplomas and transcripts of honors program graduates are designated: "*Graduated with Departmental Honors in Anthropology.*"

Requirements for the Major (66 units)

The major requires 66 units in anthropology, of which 8 are in lower division and 58 are in upper division courses.

Foreign Language Requirement

In addition to the 66 units, students must include 12 units of a modern foreign language in their lower division program or offer proof of successful completion of three years of modern language study in high school as an acceptable equivalent. An

additional acceptable equivalent can be the successful completion of three upper division courses in linguistics, ANTH 470/ENGL 403; ANTH 471/ENGL 400; and ANTH 472.

Upper Division Writing Requirement

To satisfy this university requirement, students must take ANTH 481.

Lower Division Required Courses (8 units)

ANTH 250 Cultural Anthropology (4)

ANTH 260 Physical Anthropology (4)

Upper Division Required Courses (12 units)

ANTH 361 Race, Racism, and Human Variation (4)

ANTH 430 Social Organization (4)

ANTH 497 History of Ethnological Theory (4)

Electives (30 units)

Select two from following Area courses (8 units):

ANTH 401, 404, 406, 407, 408, 410, 413, 414

Select one from following Archaeology courses (4 units):

ANTH 421, 423, 425

Select one from following Methods courses (6 units):

ANTH 424, 464, 480, 485

Select one from following Cultural courses (4 units):

ANTH 432, 434, 435, 437, 445

Select one from following Physical courses (4 units):

ANTH 460, 462, 463

Select one from following Linguistics courses (4 units):

ANTH 470/ENGL 403 or ANTH 471/ENGL 400

Additional Electives (16 units) must be selected from 400 level courses

Select additional 400 level courses in anthropology to complete upper division minimum of 58 units.

Beyond this minimum, students are encouraged to add elective courses from other disciplines, in consultation with major advisers.

Minor in Anthropology

A minor in Anthropology is available for students majoring in other fields. A total of 28 units in anthropology, of which 8 units are in lower division courses and 20 units are in upper division courses, is required.

Requirements for the Minor (28 units)

Lower Division Required Courses (8 units)

ANTH 250 Cultural Anthropology (4)
ANTH 260 Physical Anthropology (4)

Upper Division Electives (20 units)

Select two from following (8 units):

ANTH 401, 404, 406, 407, 408, 410, 413, 414, 421, 425

Select one from following (4 units)

ANTH 430, 497

Select two from following (8 units):

ANTH 361, 427, 432, 435, 437, 443, 444, 445, 460, 462, 463, 470, 471

Graduate and Postbaccalaureate Programs

Master of Arts Degree

The M.A. degree in Anthropology provides training in five areas: culture theory, ethnography, archaeology, linguistics, and physical anthropology.

Admission to the Program

Applicants must have a baccalaureate in anthropology and a 2.75 grade point average in the last 90 quarter units attempted or a B (3.0) grade point average in anthropology courses. Those whose undergraduate major was not anthropology must complete 20–32 units in anthropology, including ANTH 497, with a B average. Students' actual number of units required is determined by advisement during their first quarter of postbaccalaureate study.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Language, Linguistic, or Statistics Proficiency

All students must have a reading or speaking knowledge of a relevant research language or demonstrate proficiency in linguistic analysis or in statistics. Students must satisfy this requirement before they may attempt the comprehensive examination or submit a thesis proposal. Language proficiency is demonstrated by passing a foreign language reading examination administered by the Department of Modern Languages and Literatures. Statistics proficiency is demonstrated by a B or higher grade in POLS 580, PSY 414, or SOC 410.

Required Courses (8 units)

ANTH 510AB Seminar: Anthropological Theory and Analysis (4, 4)

Grade B or better required for continuance in program

Electives (31–37 units)

Select from 400 and 500-level anthropology courses, including at least four different 500-level courses. A maximum of 8 units in a related field may be included with prior adviser consent. Total must include 6 units of ANTH 599 if thesis option is elected.

Comprehensive Examination or Thesis (0, 6 units)

ANTH 596 Comprehensive Examination (0) or

ANTH 599 Thesis (6)

Students who select the comprehensive examination (ANTH 596) should expect to take it no earlier than the quarter they complete all course work on their program and must comply with school and department requirements. Examinations are required in culture theory and two of the following areas: archaeology, ethnography, linguistics, physical anthropology. Students who propose to write a thesis must have completed 24 units in their Master of Arts degree program as well as ANTH 481 and ANTH 510AB. Students who are approved to write a thesis must have successive enrollments in ANTH 599 for a total of 6 units.

List of Courses (ANTH) - Undergraduate Level

Lower Division Courses

230 Language and Society (4)

(Also listed as ENGL 230)

An introduction to linguistics as a social science. Exploration of the relationship of language to a variety of social issues including race, class, and gender. **GE D**

245 Introduction to Folk Literature (4)

(Course also listed as ENGL 245)

An introduction to the genres of folk literature; their composition, structure, style, performance, cultural contexts, and their contribution to written literature. **GE C1**

250 Cultural Anthropology (4)

Exploration of the concept of culture, and its application to such topics as communication, political and economic systems, marriage and family, sex roles, and religion and their relevance to modern life. **CAN ANTH 4 GE D**

260 Physical Anthropology (4)

Evolution of the human species and our place in nature, emphasizing evolutionary theory, genetics, primate behavior and the fossil record. **CAN ANTH 2 GE B3**

265 The Cultural Animal (4)

Exploration of the human biocultural experience. Perspectives on the human primate inheritance in the formation of cultural behavior and cultural organizations. **GE E**

270 Introduction to Archaeology (4)

Introduction to world prehistory, examination of basic archaeological concepts, investigation of extinct cultures. **CAN ANTH 6**

Upper Division Courses

300 Evolutionary Perspectives on Emotions (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Scientific explanations of primate behavior are used as a model for understanding the evolution of human behavior and emotions. **GE Theme E**

310 Evolutionary Perspectives on Gender (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Evolutionary perspectives on gender differences in emotions, behavior, and sexuality, utilizing data from primate studies, the brain, and human evolution. **GE Theme C**

315 Evolutionary Perspectives on Violence (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Scientific studies of evolutionary theory, primate behavior, and the brain are used as a way of understanding the expression and evolution of violence and aggression in humans. **GE Theme B**

325 The Anthropology of Aging: a Bio-Physiological Approach (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Examination of the biological, physiological and behavioral concomitants to aging; application of physical and biological anthropological concepts and knowledge to an understanding of the maturation process. **GE Theme F**

335 Maturity and Aging in Crosscultural Perspective (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. A cross-cultural examination of the cultural, social, and psychological aspects of aging and the roles of adults and the elderly in society. **GE Theme B**

338 Gender Roles in Crosscultural Perspectives (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Cross-cultural comparison of gender role differences and statuses of men and women, past and present, among traditional and contemporary populations worldwide. **GE Theme C**

355 Cultural Evolution and Ancient Civilizations (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Organization and development of human cultural and social systems. This course includes critical examinations of evolutionary theories, and case studies of complex societies of the old and new worlds. **GE Theme I**

361 Race, Racism, and Human Variation (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Evaluation of cultural and environmental influences upon composition and distribution of human populations; consideration of the genetic basis for human variation and biological validity of race concept. **GE Theme H**

385 Measurement of Human Difference (4) (also listed as PHIL 385)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Exploration of issues of diversity and justice through examination of popularized accounts of scientific research into human difference; topics include I.Q. testing and race, "innate" gender differences, and sexuality. **GE Theme H**

396 Honors Thesis (1-3)

Prerequisite: Admission to honors program in Anthropology. Preparation of an honors thesis, under supervision of an adviser, acceptable to departmental honors committee. May be repeated to maximum of 6 units.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: ANTH 497

401 Comparative Cultures (4)

Prerequisite: ANTH 250. Principal culture types and their geographical distribution, application of cultural data to ethnological problems.

404 Peoples of South America (4)

Prerequisite: ANTH 250. Prehistoric, historic, and contemporary cultures of South America, with emphasis on sociological and ethnological principles of analysis and comparison.

406 Indians of North America (4)

Prerequisite: ANTH 250. Native peoples of North America north of Mexico, their origins, culture change after contact with Europeans.

407 Indians of California (4)

Prerequisite: ANTH 250. Native peoples of California, their origins, languages, and cultures.

408 Peasant Cultures of Middle America (4)

Prerequisite: ANTH 250. Pre-Spanish civilizations of Mexico and Central America, the conquest and colonial backgrounds of present-day peoples, contemporary societies and cultures of the area.

410 Peoples of the Pacific (4)

Prerequisite: ANTH 250. Island peoples of Polynesia, Melanesia, and Micronesia, migration theories, contemporary social and political systems, European contacts and culture change.

413 Peoples of Africa (4)

Prerequisite: ANTH 250. Historical and cultural backgrounds of traditional and contemporary societies of Africa south of the Sahara, Western and Asian influences, problems of social, economic, and political development.

414 Peoples of Asia (4)

Prerequisite: ANTH 250. Peoples and cultures of Asia; interrelationships of contemporary groups and dynamics of culture change. Emphasis alternates among four areas: Japan and Korea; South Asia; Southeast Asia; China. May be repeated until all areas of emphasis are covered.

421 Archaeology of North America (4)

Prerequisite: ANTH 250. Early peopling of North America and development of prehistoric cultures in New World north of Mexican high culture area.

423 Material Culture (4)

Prerequisite: ANTH 250. The analysis and interpretation of utilitarian and non-utilitarian artifacts in early and contemporary cultures.

424 Archaeological Research Techniques (6)

Prerequisites: ANTH 270 or 407 or 421; instructor consent. Instruction in recovery and interpretation of archaeological data. Lecture 4 hours, laboratory and field work 6 hours. May be repeated to maximum of 12 units.

425 Archaeology of the Old World (4)

Prerequisite: ANTH 250. Growth of culture from its earliest beginnings to emergence of great civilizations, utilizing concepts, methods, and data of archaeology.

427 Cultural Resources Management (4)

Prerequisite: ANTH 270, or 250, or 260. Introduction to the concepts, goals, procedures and legislative basis of cultural resource management and historic preservation. Includes consideration of environmental impacts to archaeological, historic, ethnic and Native American values.

430 Social Organization (4)

Prerequisites: ANTH 250 or 401 or SOC 414 or 444; instructor consent. Systems of kinship and marriage, with reference to social control, religion, law, politics, and economic organization.

432 Anthropology of Wealth and Power (4)

Prerequisite: ANTH 250. Theoretical perspectives and comparative ethnographic analyses of political-economic systems of preindustrial societies ranging from bands through contemporary peasantry.

434 Anthropology in A Changing World (4)

Prerequisite: ANTH 250. Anthropological theory and practice in the changing social, economic, and cultural conditions of the twenty-first century.

435 Culture and the Individual (4)

Prerequisite: ANTH 250. Exploration of conformity and deviance in society through the comparative study of personality formation in different cultural and subcultural settings.

437 Magic, Witchcraft, and Religion (4)

Prerequisite: ANTH 250. Investigation of the domain of the sacred and supernatural in both technologically primitive and advanced societies. Emphasis on magic, witchcraft, taboo, myth, ritual, belief systems, and religious symbols.

443 Anthropology and Education (4)

Prerequisite: ANTH 250. Education in crosscultural perspective; application of anthropological concepts and knowledge to understanding of educative process.

444 Medical Anthropology (4)

Prerequisite: ANTH 250 or SOC 201 or 202. Health in sociocultural perspective; applying anthropological concepts and knowledge to an understanding of health.

445 Myth and Folklore (4)

Prerequisite: ANTH 250 or AMER 405. Basic forms of folklore including myth, legend, tale, song, and custom in cultural context, with attention to their origin, transmission, performance, function, and meaning.

446 Anthropological Film (6)

Prerequisite: ANTH 250. Survey of films and approaches to film making in anthropology; methods of presenting data and theoretical analysis in film; practice in using film and videotape in field research. May be repeated to a maximum of 12 units with consent of instructor. Lecture 4 hours, lab and field activity 4 hours.

450 Culture and Innovation (4)

Prerequisite: ANTH 250. The creative experience and its cultural parameters; effect of culture in structuring the innovative process; emphasis on forces that initiate, direct, and impede the course of creative effort.

454L,P Special Topics in Anthropology (1–6)

Prerequisites: As needed for specific topic. Topics of special interest in anthropology, as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

459 Human Osteology (4)

Prerequisite: ANTH 260 or BIOL 101 or 200A or 201 or consent of instructor. Introduction to the human skeleton and laboratory analysis of bone. Analyzing skeletal remains, determining age, sex, race, stature, pathology. Discussing human osteology in an anthropological context. Lecture 2 hours, Lab 4 hours.

460 Human Evolution (4)

Prerequisite: ANTH 260. Critical examination of fossil evidence for human evolution considering importance of cultural evolution. Emphasizes recent discoveries and controversial theories surrounding them.

462 Human Ecology and Adaptation (4)

Prerequisite: ANTH 260. Comparative study of the adaptations of diverse human populations to their environments.

463 Forensic Anthropology (4)

Prerequisites: Upper division standing or instructor approval. Introduction to forensic anthropology, techniques for recovery of skeletonized remains, analyzing skeletal remains, time since death, special techniques including DNA, facial reconstruction and photo superimposition, legal aspects of forensic anthropology.

464 Methods and Techniques of Physical Anthropology (6)

Prerequisites: ANTH 260, instructor consent. Methods of data gathering and analysis in physical anthropology, including consideration of practical problems in field research and advantages and limitations of various field and laboratory techniques. Lecture 4 hours, laboratory 6 hours. May be repeated to maximum of 12 units.

**470 Language and Culture (4)
(also listed as ENGL 403)**

Prerequisite: ANTH 250. Nature, origin, and evolution of language; survey of approaches and studies illustrating variations in the relation of habitual thought and behavior to language.

**471 Introduction to Linguistics (4)
(also listed as ENGL 400)**

Prerequisite: Upper division standing. Descriptive and historical study of language; problems of data collection and techniques of analysis, linguistic structure, language classification, language families of the world, language in its sociocultural setting.

472 Linguistic Analysis (4)

Prerequisite: ANTH 471 (may be taken concurrently); 250 recommended. A problems course in anthropological techniques of phonemic and morphemic analysis; close reading of technical, descriptive literature; survey of phonological and grammatical systems of non-Indo-European languages.

480 Anthropological Methods and Techniques (6)

Prerequisites: ANTH 250; instructor consent. Introduction to methodology of anthropological research, including methods of ethnographic investigation, ethnological analysis, and logical processes of problem-solving. Lecture 4 hours, laboratory and field work 6 hours.

481 Academic Writing and Publishing (4)

Prerequisites: Upper division or graduate standing, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Introduction to conceptualizing, writing, revising, and publishing academic essays, books, and reviews in the social sciences.

485 Archaeological Analysis (6)

Prerequisites: ANTH 421 or 424 and consent of instructor. Introduction to the basic concepts, principles, goals, and methodologies of archaeological analysis and interpretation. May be repeated to a maximum of 12 units for credit. Lecture 4 hours, laboratory 6 hours.

497 History of Ethnological Theory (4)

Prerequisites: 16 units of anthropology and/or sociology, as approved by instructor. Historical survey and analysis of major schools of anthropological thought.

499 Undergraduate Directed Study (1–8)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and final report submitted. May be repeated to maximum of 8 units.

Graduate Level Courses (ANTH)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: ANTH 497

Classified graduate standing is required for admission to all 500-level courses.

501 Seminar: Ethnography (4)

Prerequisites: Graduate standing in a social science major, instructor consent. Selected topics in major world areas, as announced in *Schedule of Classes*. May be repeated for credit to maximum of 8 units for different areas.

510AB Seminar: Anthropological Theory and Analysis (4, 4)

Advanced consideration of problems involved in application of anthropological theory to cultural data; limitations of contemporary analytical methods.

520 Seminar: Archaeology (4)

Prerequisite: ANTH 421, 424, or 425. Archaeological theory, method, and relationship of archaeological materials to central problems of anthropology. May be repeated once for credit.

530 Seminar: Social Organization (4)

Prerequisite: Classified graduate standing in anthropology. Problems and theories of contemporary social anthropology. May be repeated once for credit.

560 Seminar: Physical Anthropology (4)

Prerequisite ANTH 361 or 462. Problems and theories of contemporary physical anthropology. May be repeated once for credit.

570 Seminar: Language and Culture (4)

Prerequisites: Sixteen units of ANTH courses, including 470 or 471. Advanced study of concepts of language and culture; use of linguistic data and methods in anthropology; relationships between linguistic and nonlinguistic behavior; linguistic models. May be repeated for credit.

580 Methods in Ethnography (5)

Prerequisite: Classified graduate standing in anthropology. Advanced principles and methods concerned with ethnographic field work; techniques of gathering, reporting, and interpreting field data relating to research problems and design. May be repeated once for credit. Lecture 3 hours, laboratory and field work 6 hours.

594 Seminar: Problems in Cultural Anthropology (4)

Prerequisite: Classified graduate standing in anthropology. Problems and theories of contemporary cultural anthropology. May be repeated once for credit.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 8 units.

599 Thesis (1–3)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of thesis proposal prior to registration, completion of 24 units in their Master of Arts degree program as well as ANTH 481 and ANTH 510AB. Independent research resulting in a thesis. Must be repeated to total of 6 units. Graded CR/NC.

Department of**Art****School of Arts and Letters****DEPARTMENT OFFICE**

Fine Arts 326

Phone (323) 343-4010

FAX (323) 343-4045

Website: www.calstatela.edu/academic/art

Art is a means of creative communication and expression. The programs of the Department of Art offer students the opportunity to acquire a background of understanding and skills, and to develop their abilities in the visual arts. The program prepares students for advanced professional study in art as well as for many professions in teaching, business, and industry. Students with career interests in animation, ceramics, graphic design, photography, illustration, computer graphics, painting, printmaking, sculpture, interior and architectural design, jewelry and metal craft, art history, fashion and textiles, and art education will find appropriate programs or courses of study in the department.

Students pursuing careers in other fields may benefit from combining the study of art with their professional preparation. The Bachelor of Arts degree program and the Master of Arts and Master of Fine Arts degree programs are described below.

The Faculty

Professors: Barbara Ann Boyer, Marilyn Buccellati, Jack Butler, Abbas Daneshvari, Daniel Douke, Edward C. Forde, John Funakura, Tony Longson, Joseph E. Soldate (Chair).

Associate Professors: Elizabeth Bryant, Susan B. Cash, Mikyung Mika Cho, Rebecca L. Davis, Carol S. Jeffers, Carol F. Tuntland, Connie Utterback.

Assistant Professors: Michael Henderson, Patricia Woodlin.

Emeriti: Walter M. Askin, Charles E. Borman, Peter Marc Damien, Geraldine Dimondstein, Wachtang Djobadze, H. Leonard Edmondson, Robert Fiedler, Virginia Hoffman, Malcolm A. McClain, Jay M. Metcalf, Gray Phillips, Robert D. Reeser, Carolyn Radakovich, Jeanne Schnitzler.

Exhibitions of Work

The Fine Arts Gallery of the Art Department presents exhibitions of artwork by established professional artists as well as by faculty and students. Graduate student thesis exhibitions are presented quarterly in the gallery. In addition, the student-run exhibition space, COMA Gallery, presents rotating exhibitions of Cal State L.A. student artwork. All exhibitions are free and open to the public.

Undergraduate Programs**Bachelor of Arts Degree**

The program for the Bachelor of Arts degree in Art is structured so that students have the opportunity to acquire an understanding of the variety of subjects encompassed within the visual arts as well as to develop excellence in a specific area.

Requirements for the Major (93 - 108 units)

All students majoring in Art participate in an exploratory and fundamental core program of 24 lower division units and must take the course ART 356 Written Expression in the Visual Arts.

Completion of lower division core courses or their equivalent and achievement of upper division standing are prerequisite to admission to upper division art courses. Students not majoring or minoring in Art must have consent of the instructor.

Credit for ART 499, if taken, is limited to 9 units, with no more than 3 units in any one quarter. Nine units may be used for electives.

Required Core (28 Units)**Required Lower Division Core (24 units)**

ART 101ABC	World Art (4, 4, 4)
ART 103	Two-Dimensional Art Fundamentals (4)
ART 109	Three-Dimensional Art Fundamentals (4)
ART 159	Studio and Survey: Introduction to Drawing (4)

Required Upper Division Course (4 units)

ART 356	Written Expression in Visual Arts (4)
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Options

Students choose one of the following options to complete their major. Prerequisites to admission to an option are completion of the lower division core.

Animation Option (70 units)

The Animation Option provides a thorough education in the creative, practical and historical uses of animation. The option encourages an experimental approach to animation combining traditional and contemporary techniques. Students complete a core of 30-34 units plus either the Traditional Animation or the Computer Animation track for an additional 36-40 units. The elective courses within each track allow the student to take courses in the other techniques.

This option is offered jointly with the Communication Studies Department.

Option Core Requirements (30-34 units)**Lower Division (10-14 units)**

ART 159	Survey and Studio: Introduction to Drawing (4)
ART 244ABC	Introduction to Life Composition (2, 2, 2)
BCST 280	Animation History (4)

Upper Division (20 units)

ART 333	Color (4)
BCST 378	Writing and Storyboarding for Animation (4)
ART/BCST 498	Capstone Animation Project (4, 4, 4)

Traditional Animation Track (36-40 units)**Upper Division Track Requirements (12 units)**

BCST 377	Introduction to Animation (4)
BCST 381	Advanced Animation (4, 4)

Electives (24-28 units)

Select from the following:

ART 303	Three - Dimensional Design (4)
ART 380	Computer Graphics I (4)
ART 398	Cooperative Education (1-8)
ART 414	Advanced Painting (4)
ART 449	Video for Artists (4)
ART 454L,P	Special Topics in Art (1-9)
ART 480	Computer Graphics II (4)
ART 494	Computer Animation (4)
ART 496	Advanced Computer Animation (4)
ART 499	Undergraduate Directed Study (1-8)
BCST 303B	Introduction to TV Digital Post Production (2)
BCST 362	Film and Television Aesthetics (4)
BCST 398	Cooperative Education (1-8)
BCST 403B	Advanced TV Digital Post Production (4)
BCST 440	Noncommercial Broadcasting and Film (4)
BCST 454	Selected Studies in Broadcasting (4-12)
BCST 454L	Selected Studies in Production (1-12)
BCST 499	Undergraduate Directed Study (1-8)

Computer Animation Track (36-40 units)**Upper Division Track Requirements (16 units)**

ART 380	Computer Graphics I (4)
ART 480	Computer Graphics II (4)
ART 494	Computer Animation (4)
ART 496	Advanced Computer Animation (4)

Electives (20-24 units)

Select from the following:

ART 303	Three-Dimensional Design (4)
ART 398	Cooperative Education: (1-8)
ART 414	Advanced Painting (4)
ART 449	Video for Artists (4)
ART 454L,P	Special Topics in Art (1-9)
BCST 303B	Introduction to Television Digital Post Production (2)
BCST 362	Film and Television Aesthetics (4)
BCST 377	Introduction to Animation (4)
BCST 381	Advanced Animation (4, 4)
BCST 398	Cooperative Education: (1-8)
BCST 403B	Advanced Television Digital Post Production (4)
BCST 411	Children's Media (4)
BCST 440	Noncommercial Broadcasting and Film (4)
BCST 454	Selected Studies in Broadcasting (1-12)
BCST 454L	Selected Studies in Production (1-12)
BCST 499	Undergraduate Directed Study (1-8)

Design Option (67 units)

The Design Option provides an understanding of design theory and practice necessary for creative expression in the following career interest areas: animation, computer graphics, graphic design, illustration, interior and architectural design and metals and jewelry.

Required Lower Division Courses (12 units)

ART 180	Introduction to Computer Graphics (4)
ART 203	Advanced Two-Dimensional Art Fundamentals (4)
ART 237	History of Design (4)

Elective Lower Division Courses (4 units)

Select one course from the following:

ART 155	Survey and Studio: Introduction to Painting (4)
ART 157	Survey and Studio: Introduction to Metal and Jewelry Design (4)
ART 244	Life Composition A, B (2,2)
ART 287	Introduction to Photographic Processes (4)

Required Upper Division Courses (23 units)

ART 303	Three-Dimensional Design (4)
ART 323	Perspective Drawing (4)
ART 333	Color (4)
ART 401	Proseminar: Critical Theories in Visual Arts (3)
ART 426	Modern Art (4)
ART 492D	Senior Project - Design (4)

Upper Division Elective Courses (20 units)

Select from the following:

ART 308	Graphic Communication Design (4)
ART 312	Rendering (3)
ART 313	Lettering and Typography (4)
ART 327	Intermediate Enameling (3)
ART 328	Interior Design (4)
ART 332	Intermediate Rendering (3)
ART 343	Architectural Design (4)
ART 352	Architectural Lighting Design (4)
ART 358	Airbrush Painting (3)
ART 377	Intermediate Photography (4)
ART 380	Computer Graphics I (4)
ART 387	Color Photography (4)
ART 388	Illustration (4)
ART 402	Advanced Color Photography (4)
ART 403	Advanced Three-Dimensional Design (4)
ART 408	Advanced Graphic Communication Design (4)
ART 413	Advanced Lettering and Typography (4)
ART 418	Business Principles and Practices for Artists and Designers (4)
ART 422	Interactive Design (4)
ART 423	Product Design (3)
ART 427	Advanced Jewelry and Metals (3)
ART 428	Advanced Interior Design (4)
ART 432	Advanced Rendering (3)
ART 433	Advanced Color (4)
ART 443	Advanced Architectural Design (4)
ART 448	Commercial Exhibition and Display Design (3)
ART 449	Video for Artists (4)
ART 452	Advanced Architectural Lighting Design (4)
ART 454L,P	Special Topics in Art (1-4)
ART 458	Advanced Airbrush Painting (3)
ART 463	Portfolio Presentation (3)
ART 468	Problems in Advanced Design (4)
ART 472	Advanced Enameling (3)
ART 477	History of Photography (4)
ART 480	Computer Graphics II (4)
ART 482	Photographic Manipulations and Extensions (4)
ART 483	Photographic Studio Practices (4)
ART 487	Advanced Photography (4)
ART 488	Advanced Illustration (4)
ART 493	Digital Image Processing and Illustration (4)
ART 494	Computer Graphics Animation (4)
ART 496	Advanced Computer Animation (4)

Upper Division Elective Courses (8 units)

Select upper division Art courses with adviser approval (excluding Art 499).

Art Education Option (68 units)

The Art Education Option provides art majors with opportunities to prepare for art teaching careers and to qualify for the Single Subject Teaching Credential in Art. The option presents a professional preparation program, which is certified by the California Commission on Teacher Credentialing, and is designed to enable teacher candidates to perform successfully on the PRAXIS examination. For more information see the **Charter School of Education** section in the **Academic Programs: School Based and University Wide chapter** for regulations governing all teaching credential programs.

Required Lower Division Courses (20 units)

ART 152	Studio and Survey: Introduction to Ceramics (4)
ART 155	Studio and Survey: Introduction to Painting (4)
ART 180	Introduction to Computer Graphics (4)
ART 244	Life Composition A, B (2, 2)
ART 287	Introduction to Photographic Processes (4)

Required Upper Division Courses (28 units)

ART 415	Foundations of Art (4)
ART 426	Modern Art (4)
ART 400	Development of Literacy in Visual Arts (4)
ART 460	Multicultural Approaches to Visual Arts (4)
ART 475	Visual Arts and Human Development (4)
PHIL 475	Aesthetics (4)
ART 405	Capstone: Exploring Art Concepts and Media (4)

Elective Courses (20 units)

Students are to select from the studio arts, design, art history, or animation options. Courses in jewelry, sculpture, and printmaking are recommended.

Studio Arts Option (65 units)

The Studio Arts Option provides theory and practice for the development of perceptual and conceptual abilities needed to engage in creative visual expression.

Required Lower Division Courses (22 units)

ART 244	Life Composition A, B, C (2, 2, 2)
ART 150	Survey and Studio: Introduction to Sculpture (4)
ART 152	Survey and Studio: Introduction to Ceramics (4)
ART 155	Survey and Studio: Introduction to Painting (4)
ART 287	Introduction to Photographic Processes (4)

Required Upper Division Courses (11 units)

ART 401	Proseminar: Critical Theories in Visual Arts (3)
ART426	Modern Art (4)
ART 492S	Senior Project - Studio Arts (4)

Upper Division Elective Courses (32 units)

Select from the following:

ART 307	Intermediate Ceramic Art (4)
ART 314	Intermediate Sculpture (4)
ART 358	Airbrush Painting (3)
ART 364	Intermediate Drawing (4)
ART 374	Intermediate Painting (4)
ART 377	Intermediate Photography (4)
ART 380	Computer Graphics I (4)
ART 387	Color Photography (4)
ART 402	Advanced Color Photography (4)
ART 404	Studio Seminar (4)
ART 412	Advanced Ceramic Art (4)
ART 414	Advanced Painting (4)
ART 417	Advanced Ceramic Processes (4)
ART 429	Advanced Sculpture (4)

Upper Division Elective Courses (cont'd)

ART 434	Advanced Painting Processes (4)
ART 449	Video for Artists (4)
ART 454 L,P	Special Topics in Art (1-4)
ART 458	Advanced Airbrush Painting (3)
ART 464	Advanced Life Composition (2)
ART 474	Printmaking: Etching (3)
ART 477	History of Photography (4)
ART 479	Silkscreen/Serigraphy (3)
ART 480	Computer Graphics II (4)
ART 482	Photographic Manipulations and Extensions (4)
ART 483	Photographic Studio Practices (4)
ART 484	Advanced Sculpture Processes (4)
ART 487	Advanced Photography (4)
ART 494	Computer Graphics Animation (4)

Art History Option (68 units)

The Art History Option provides historical and developmental study of art in most of the world civilizations. It is intended to develop the student's ability to evaluate and comprehend concepts and issues within this cultural heritage.

Required Lower Division Courses (8 units)

Select from the following:

ART 244	Life Composition A,B, C (2, 2, 2)
ART 150	Studio and Survey: Introduction to Sculpture (4)
ART 152	Studio and Survey: Introduction to Ceramics (4)
ART 155	Studio and Survey: Introduction to Painting (4)

Required Upper Division Course (4 units)

ART 426	Modern Art (4)
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Upper Division Elective Courses (56 units)

Select from the following:

ART 406	Ancient Near Eastern Art and Archaeology (4)
ART 411	Greek and Roman Art (4)
ART 416	Medieval Art (4)
ART 421	Baroque Art (4)
ART 431	Oriental Art (4)
ART 436	Renaissance Art (4)
ART 441	American Art (4)
ART 446	Art of Latin American (4)
ART 451	Mannerism: High Renaissance to Baroque (4)
ART 454L,P	Special Topics in Art (1-4)
ART 461	Oceanic and North American Indian Art (4)
ART 466	Nineteenth Century Art (4)
ART 471	History of Costume (4)
ART 476	Early Christian and Byzantine Art (4)
ART 477	History of Photography (4)
ART 481	African Art (4)
ART 491	Art Since 1945 (4)

*FREN 100ABC Elementary French (4, 4, 4)

*GERM 100ABC Elementary German (4, 4, 4)

* Required of students planning graduate study.

Fashion and Textiles Option (80 units)

The Fashion and Textiles Option provides students with a sound foundation in the visual arts as well as an understanding of the cultural and social basis of human appearance and adornment. The program of study prepares students for careers in the full range of fashion and textile design, merchandising, and manufacturing.

Students may select one of three specializations within the option: Fashion Design, Fashion Merchandising, or Textiles.

Students who select this option complete the required Art Core and 51 units in the fashion core. In addition, 29 units are required in a chosen specialization.

Recommended General Education Support**Courses (12 units)**

ECON 150	Economics for the Citizen (4)
PSY 150	Introductory Psychology (4)
SOC 201	Principles of Sociology (4)
ANTH 250	Cultural Anthropology (4)

Required Fashion Core (51 units)**Required Lower Division Courses (23 units)**

ART 106	Apparel Construction I (3)
ART 156	Survey & Studio: Textiles & Apparel (4)
ART 204	Fashion Design: Flat Pattern I (4)
ART 206	Fashion Merchandising Concepts (4)
ART 208	Textiles (4)
ART 214	Apparel Analysis (4)

Required Upper Division Courses (28 units)

ART 302	Social Aspects of Fashion (4)
ART 420	Textile & Apparel Economics (4)
ART 442	Advanced Textiles (4)
ART 462	Textile Performance (4)
ART 469	Historic Textiles (4)
ART 471	History of Costume (4)
ART 492F	Senior Project - Fashion and Textiles (4)

Required Specialization Courses (29 units)

Select one of the following specializations with advisor approval.

Fashion Design (23 units)

ART 108	Apparel Construction II (3)
ART 304	Fashion Design: Flat Pattern II (4)
ART 384	Computers in Fashion Design (4)
ART 459	Advanced Fashion Design Processes (4)
ART 489	Advanced Fashion Design (4)

Fashion Merchandising (20 units)

ART 382	Computers in Fashion Merchandising (4)
ART 430	Fashion Merchandising Processes (4)
ART 444	Fashion Promotion (4)
MKT 304	Principles of Marketing (4)
MGMT 307	Management and Organizational Behavior (4)

Textiles (20 units)

ART 202	Textile Structures (4)
ART 203	Advanced Two-Dimensional Art Fundamentals (4)
ART 338	Textile Design (4)
ART 386	Computers in Textiles (4)
ART 483	Advanced Textile Design (4)

Electives (6-9 units)

Select courses with advisor approval.

ART 180	Introduction to Computer Graphics (4)
ART 202	Textile Structures (4)
ART 203	Advanced Two-Dimensional Art Fundamentals (4)
ART 237	History of Design (4)
ART 338	Textile Design (4)
ART 244ABC	Life Composition (2, 2, 2)
ART 333	Color (4)
ART 373	Creative Fashion Design (3)
ART 382	Computers in Fashion Merchandising (4)
ART 384	Computers in Fashion Design (4)
ART 386	Computers in Textiles (4)
ART 430	Fashion Merchandising Processes (4)
ART 438	Advanced Textile Design (3)
ART 444	Fashion Promotion (4)
ART 459	Advanced Fashion Design Processes (4)
ART 489	Advanced Fashion Design (4)

Electives (cont'd)

MKT 340	Principles of Advertising (4)
MKT 342	Consumer Behavior (4)
MKT 344	Principles of Retailing (4)

Minor in Art

A minor in Art is available for students majoring in other fields and requires 46 units in art courses.

Requirements for the Minor (46 units)**Required Lower Division Courses (16 units)**

ART 101A or 101B or 101C	World Art (4, 4, 4)
ART 103	Two-Dimensional Art Fundamentals (4)
ART 109	Three-Dimensional Art Fundamentals (4)
ART 159	Studio and Survey: Introduction to Drawing (4)

Lower Division Electives: (8 units)

Select from the following:

ART 180	Introduction to Computer Graphics (4)
ART 150	Survey and Studio: Introduction to Sculpture (4)
ART 152	Survey and Studio: Ceramics (4)
ART 155	Survey and Studio: Painting (4)
ART 203	Advanced Two-Dimensional Art Fundamentals (4)

Required Upper Division Course (4 units)

ART 426	Modern Art
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Upper Division Electives (18 units)

Select art courses from two of the Art major options.

Certificate Program in Interior Design

The Department of Art offers a credit certificate program in Interior Design, intended to prepare individuals for career opportunities in interior design. The program includes theoretical, conceptual, technical, and practical experiences leading to portfolio development. A total of 45 units is required for completion of the certificate program, as outlined below. Refer to the *Undergraduate Study: General Information* chapter of this catalog for general regulations governing all certificate programs.

Prerequisites (12 units)

ART 103, 109, 159, 180

Required Courses for Certificate (45 units)

ART 203	Advanced Two-Dimensional Art Fundamentals (4)
ART 303	Three-Dimensional Design (4)
ART 312	Rendering (3)
ART 313	Lettering and Typography (4)
ART 332	Intermediate Rendering (3)
ART 323	Perspective Drawing (4)
ART 328	Interior Design (4)
ART 333	Color (4)
ART 343	Architectural Design (4)
ART 428	Advanced Interior Design (4)
ART 432	Advanced Rendering (3)
ART 443	Advanced Architectural Design (4)

Certificate in Fashion Design

The Department of Art offers a certificate program in Fashion Design that prepares individuals for career positions in fashion design. The program includes technical methods, theory, and creative concepts. A total of 42 units is required for completion of the certificate program, as outlined below. Refer to the *Undergraduate Study: General Information* chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (42 units)

Required Courses (30 units)

ART 103	Two-dimensional Art Fundamentals (4)
ART 106	Apparel Construction I (3)
ART 108	Apparel Construction II (3)
ART 204	Fashion Design: Flat Pattern II (4)
ART 208	Textiles (4)
ART 304	Fashion Design: Flat Pattern II (4)
ART 459	Advanced Fashion Design Processes (4)
ART 486	Advanced Fashion Design (4)

Electives (12 units)

Select from the following:

Art 203, 206, 302, 333, 384, 386, 469, 471.

Certificate in Fashion Merchandising

The Department of Art offers a certificate program in Fashion Merchandising that prepares individuals for career positions in the fashion industry. The program includes technical information, theory, and creative concepts. A total of 40 units is required for completion of the certificate program, as outlined below. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (40 units)

Required Courses (32 units)

ART 206	Fashion Merchandising Concepts (4)
ART 208	Textiles (4)
ART 214	Apparel Analysis (4)
ART 302	Social Aspects for Fashion (4)
ART 420	Textiles and Apparel Economics (4)
ART 430	Fashion Merchandising Processes (4)
ART 444	Fashion Promotion (4)
ART 495	Directed Fieldwork in Fashion & Textiles (4)

Electives (8 units)

Select from the following

ART 204, 382, 442, MKT 304, 341, 344.

The Credential Program

The Bachelor of Arts degree in Art with the credential option has been approved by the Commission on Teacher Credentialing for the Single Subject credential in Art. Interested students should consult advisers in the department and in the Charter School of Education.

Graduate and Baccalaureate Programs

The Master of Arts degree program in Art is designed to produce graduates with advanced professional competence in a specialized area of the visual arts. The degree is intended to prepare teachers for the public schools, community colleges, and four-year institutions; and to train art historians, professional artists, and commercial artists. The program requires that students select and strengthen an area of specialization. The overall objective is to elevate students' ability to conceptualize on a significant level.

The Master of Fine Arts degree program in Art is designed to provide, on a highly selective basis, specialized training and education for artists and designers in design, computer graphics, painting, photography, printmaking, sculpture, ceramics, and metalsmithing. Career-related training is provided through internships, required field work, and the integration of instruction with professional work experience which is enhanced by the campus' proximity to media and industries, as well as prominent local art museums. The MFA program allows students a chance to work with faculty professionals who help them focus on theoretical, critical, and practical aspects of their area of specialization.

Master of Arts Degree

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in art from an accredited college or university or complete Cal State L.A.'s lower and upper division art major core program or its equivalent. Art History students must successfully complete 12 units of first-year French or German prior to achieving classified standing.

Classified Graduate Standing

Students must apply to the desired area of specialization: Art Education, Art History, Design, or Studio Arts. Approval by a graduate screening committee established by the faculty of the student's option area and completion of any qualifying courses are required for classified graduate standing.

Requirements for the Degree (45 units)

A total of 45 units is required, with 33 units in art and at least 23 in 500-level courses. Consultation with an adviser is essential for program submission and approval.

Required Course (4 units)

ART 531	Research Methodology in Art (4)
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Areas of Specialization (6–8 units)

Select 6–8 units from one of following areas:

Art Education

**ART500	Seminar: Art Education (3)
ART505	Research in Art Education (3)

Art Therapy

**ART 520	Seminar: Art Therapy (4)
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Art History

**Art 501	Seminar: Art History (4)
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Design

**ART 503	Graduate Problems in Design (3)
**ART 512	Graduate Photography (3)

Studio Arts

**ART 504	Graduate Problems in Painting, Sculpture, and Graphic Arts (3)
**ART 512	Graduate Photography (3)
**ART 544	Graduate Painting and Drawing (3)
**ART 574	Graduate Printmaking (3)
**ART 584	Graduate Sculpture (3)

**Repeatable Course

Electives (7–12 units)

Select 500-level art courses from any area.

Additional Electives (10–17 units)

Select 400- or 500-level art courses from any area.

Electives Outside Art (0–12 units)

Select 400 or 500-level courses from any department.

Comprehensive Examination or Thesis or Project (0, 6 units)

* ART 596 Comprehensive Examination (0) or

ART 599 Thesis, Project, or Combination Written Report and Project (6)

* Open To Art History Students Only

Only Art History students may take the comprehensive examination (ART 596). These students should expect to take the examination no earlier than the quarter they complete all course work on their program and must comply with school and departmental requirements. In addition to the examination, they must complete an additional six units in art.

Art History students who do not select the comprehensive examination and students in all other specializations in the major must enroll in ART 599 and successfully complete either a thesis or a project.

Master of Fine Arts Degree**Admission to the Program**

In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in art from an accredited college or university or preparation equivalent to the core courses in Cal State L.A.'s baccalaureate in art. Candidates must also have completed 24 quarter units of upper division course work in the area of specialization proposed for the MFA degree and must have a B (3.0) or higher grade point average in all upper division art courses. The Department of Art has MFA application periods, during which each applicant's performance is assessed through personal interview and portfolio evaluation. Selection of MFA candidates is based on faculty assessment of their demonstrated abilities and on their personal attitudes, commitment, and potential for career success.

Requirements for the Degree (90 units)

The MFA degree in Art requires a minimum of 90 units of approved course work when starting with a baccalaureate, or 45 units when starting after completion of a Master of Arts degree in Art.

The Ninety Unit Program**Required General MFA Subjects (13 units)**

**ART 502M MFA Seminar: Visual Arts (3)

**ART 504M MFA Seminar: Studio Art (3)

**ART 508M MFA Seminar: Design (3)

ART 531 Research Methodology in Art (4)

**May be repeated to total of 6 units

Required Art History (12 units)

Select from the following:

ART 406, 411, 416, 421, 431, 436, 441, 446, 451, 461, 466, 471, 476, 477, 481, 491, 501

Required Areas of Specialization (45 units)

The following repeatable courses must be taken for a total of 27 units.

ART 595M, 598M, 599M (3 units each)

Select 18 units from one of following areas:

Design

ART 503, 508M, 512

Studio Arts

ART 504, 504M, 512, 544, 574, 584

Electives (12 units)

Select 400-level courses from the Art Education, Design, and Studio Arts specializations with adviser approval.

Electives Outside Art (8 units)

Select 8 units of related upper division or graduate level course work with adviser approval.

List of Courses (ART) - Undergraduate Level

*There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

Lower Division Courses**101ABC World Art (4, 4, 4)**

Survey of historical development of painting, sculpture, and architecture throughout the world. **CAN ART SEQ A**

101A: Survey of the historical development of world art including painting, sculpture, and architecture from the Paleolithic period to approximately 1000 CE. **GE C2**

101B: Survey of the historical development of world art including painting, sculpture and architecture form approximately 1000 CE to 1500 CE. **GE C2**

101C: Survey of the historical development of world art including painting, sculpture, and architecture from 1500 CE to the present. **GE C2**

***102 Introduction to Clay and Ceramic Processes (3)**

Orientation to ceramic processes; hand-building techniques for pottery and sculpture; historical examples from different periods and cultures related to form and surface treatment and glaze application. Activity 6 hours.

103 Two-Dimensional Art Fundamentals (4)

Introduction to fundamental concepts, organizing principles and historical references of two-dimensional art. Studio projects develop a visual vocabulary of two-dimensional elements and relationships common to all forms of creative expression. Lecture 2 hours, activity 4 hours. **CAN ART 14**

104 Introduction to Drawing (3)

Drawing experiences involving development of form, structure, light and dark, and relationships of visual structural elements. Activity 6 hours. **CAN ART 8**

106 Apparel Construction I (3)

Clothing construction techniques, with emphasis on application of principles. Activity 6 hours.

108 Apparel Construction II (3)

Advanced processes of apparel construction and finishing. Application of couture techniques and methods. Activity 6 hours.

109 Three- Dimensional Art Fundamentals (4)

Introduction to fundamental concepts and history of three-dimensional form, as found in nature, sculpture, design and architecture. Studio projects explore expressive potential of three-dimensional forms using various materials and methods. Lecture 2 hours, activity 4 hours. **CAN ART 16**

150 Survey and Studio: Introduction to Sculpture (4)

Human development and the arts as experienced through sculpture; history, forms, functions, cultural survey, interrelationships and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours. **GE C2**

***152 Survey and Studio: Introduction to Ceramics (4)**

Human development and the arts as experienced through ceramics; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours. **GE C2**

155 Survey and Studio: Introduction to Painting (4)

Human development and the arts as experienced through painting; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours. **GE C2**

156 Survey & Studio: Textiles and Apparel (4)

Human development and the arts as experienced through textiles and apparel; history, forms, functions, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours. **GE C2**

***157 Survey and Studio: Introduction to Metal and Jewelry Design (4)**

Human development and the arts as experienced through metal and jewelry design; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours. **GE C2**

159 Survey and Studio: Introduction to Drawing (4)

Human development and the arts as experienced through drawing; history, forms, functions, cultural survey, interrelationships, and symbolism correlated with personal exploration. Lecture 2 hours, activity 4 hours. **CAN ART 8 GE C2**

180 Introduction to Computer Graphics (4)

Introduction to and analysis of the uses of computer hardware and software in Art and Design; historical, practical and creative implications.

202 Textile Structures (4)

Introduction to fundamental concepts and techniques of fabric structure. Projects include exploration of basic woven and knit constructions. Lecture 2 hours, activity 4 hours.

203 Advanced Two-Dimensional Art Fundamentals (4)

Prerequisite: ART 103. Advanced study of the fundamental concepts, principles, and historical references of two-dimensional art with an emphasis on the creative process and development of individual artistic expression. Lecture 2 hours, activity 4 hours.

204 Fashion Design: Flat Pattern I (4)

Prerequisite: ART 106, 208, or instructor consent. Principles and techniques of pattern making, with emphasis on style development and fitting. Lecture 2 hours, activity 4 hours.

206 Fashion Merchandising Concepts (4)

Concepts, principles, and overview of fashion merchandising.

208 Textiles (4)

Fundamental study of fibers, yarns, fabrics, color, and finishes; emphasis on properties and performance in relation to selection, use, and care. Lecture 2 hours, activity 4 hours.

209 The Appreciation of Art through World Culture (4)

Appreciation and understanding of the visual arts in world culture. Analysis of the art of a variety of cultures through drawing, painting, sculpture, design. **GE C2**

212 Introduction to Weaving: Knotting Techniques (3)

Methods of structuring with fiber including knotting, macramé, loom-free and primitive weaving; fabric constructions involving collage, applique, stitchery, and three-dimensional forms. May include field trips. Activity 6 hours.

214 Apparel Analysis (4)

Prerequisite: ART 208. Knowledge, analysis, and evaluation of fashion products.

234 Introduction to Painting (3)

Creative use of color based on an understanding of visual structural elements; study and manipulation of various media including watercolor and oil. Activity 6 hours.

237 History of Design (4)

Historical survey of design and the design process, including an examination of artistic, cultural, social, and theoretical factors that influence design.

240 Art and Life Perspectives (4)

Comparative analyses of indigenous, blended, and industrialized socio-cultural groups' art forms and views of time, environment, birth, death, and ancestry, as these views are expressed through their visual art forms. **GE E**

244ABC Introduction to Life Composition (2, 2, 2)

Prerequisite: ART 159. Basic concepts of figure drawing and sculpting, exploration of form, structure, proportions of human figure; techniques as applied to visual expression. Activity 4 hours.

254 L, P Special Topics in Art (1-4)

Prerequisite: As needed for specific topic. Current topics of special interest, as announced in Schedule of Classes. May be repeated to maximum of 9 units.

***272 Introduction to Jewelry (3)**

Design and fabrication of basic jewelry techniques; lost wax casting; texturing; forming; linking; soldering; bezel stone setting; use of bronze, silver, and other nonferrous metals. Activity 6 hours.

***287 Introduction to Photographic Processes (4)**

Basic principles of black and white photography: tools, materials, techniques, and philosophies of photography as an expressive medium. Recommended that students furnish their own cameras. Lecture 2 hours, activity 4 hours. **CAN ART 18**

Upper Division Courses

Upper division standing is prerequisite to enrollment in all upper division art courses. Students majoring or minoring in Art must have completed applicable lower division core courses or equivalents; students in other fields must have instructor consent.

302 Social Aspects of Fashion (4)

Prerequisite: GE social science requirement. Study of fashion from a sociological and psychological perspective with particular emphasis on the processes people use to associate apparel and appearance with certain meanings, and the social consequences of those meanings.

303 Three-Dimensional Design (4)

Prerequisites: ART 103, 109, 203. Theoretical, historical, and functional study of three-dimensional design for creative development. Studio projects explore a variety of materials, processes and technologies. Lecture 2 hours, activity 4 hours.

304 Fashion Design: Flat Pattern II (4)

Prerequisite: ART 204. Advanced fashion designing through the pattern methods. Lecture 2 hours, activity 4 hours.

***307 Intermediate Ceramic Art (4)**

Prerequisite: ART 152 or consent of instructor. Intermediate level study of ceramic art concepts, processes, and history. Development of concepts and techniques to achieve individual expression. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

308 Graphic Communication Design (4)

Prerequisites: ART 313, 333. Communication design theory and practice using various media, processes and technologies. Introduction to fundamental concepts of visual communication including graphic design, corporate identity and logo design. Lecture 2 hours, activity 4 hours.

312 Rendering (3)

Fundamentals of rendering for design disciplines. Shade, shadow, color, value and intensity are used to distinguish objects, describe form, and indicate depth and space. Various media and techniques are introduced. Activity 6 hours.

313 Lettering and Typography (4)

Technical, theoretical and historical foundations of lettering and typography. Development of skills and the methodology of professional use of letterforms in graphic communication. Lecture 2 hours, activity 4 hours.

314 Intermediate Sculpture (4)

Prerequisite: ART 150 or consent of instructor. Continued examination and development of creative approaches in sculpture concepts and processes. Exploration of varied materials as used in individual expression. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

315 The Arts and the Environment (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Examines representations and uses of the global environment from various eras and cultural perspectives in visual art.

GE Theme G**317 Visual Arts in Urban Contexts (4)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Explorations of visual arts in different urban contexts. Comparisons of diverse groups of artists, urban art forums, and processes of achieving recognition and legitimacy.

GE Theme D**323 Perspective Drawing (4)**

Study of perspective drawing and related methodologies to develop and communicate design concepts. Visualization of three-dimensional objects using one-point and two-point perspectives including shadows, slopes, and reflections. Lecture 2 hours, activity 4 hours.

***327 Intermediate Enameling (3)**

Prerequisite: ART 157 or instructor consent. Intermediate level of study of concepts and processes in enameling. Further development of design and enameling techniques specifically related to enameling use in jewelry and metals. May be repeated to maximum of 9 units. Activity 6 hours.

328 Interior Design (4)

Prerequisites: ART 312, 323. Study of commercial and residential interior design, including space planning, drafting techniques, color usage, and model building. Lecture 2 hours, activity 4 hours.

332 Intermediate Rendering (3)

Prerequisite: ART 312. Intermediate study of rendering techniques and delineation skills for design disciplines. Rapid visualization and quick sketch drawing methods are used for design ideation and communication. Activity 6 hours. May be repeated to maximum of 6 units.

333 Color (4)

Prerequisite: ART 203. Intensive study of color theory and color perception. Lectures and studio projects examine the aesthetic, practical, optical, psychological, symbolic, historical and cultural aspects of color. Lecture 2 hours, activity 4 hours.

338 Textile Design (4)

Prerequisite: ART 103 or consent of instructor. Fundamental theories, concepts, and processes used for print textile design. Includes use of computer as a design tool. May include field trips. Lecture 2 hours, activity 4 hours.

341 The American Landscape in Art (4)

Historical survey and analysis of the landscape and visions of the U.S. in art and architecture from 1700 to the present. Theories and principles of art, especially landscape painting.

343 Architectural Design (4)

Prerequisites: ART 312, 323. Study of historical and contemporary architectural ideas, structure, and design solutions. Development of skills in layout, drafting techniques, model building and the use of various media and technologies. Lecture 2 hours, activity 4 hours.

352 Architectural Lighting Design (4)

Prerequisite: ART 343. Architectural lighting design with emphasis on linking theory, design concepts, application and environmental considerations. Activity 6 hours. May include field trips.

356 Written Expression in Visual Arts (4)

Prerequisite: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Study and practice in forms of writing pertaining to art including theory, criticism, and historical research and analysis.

**357 Creative Experiences for Health and Wellness (4)
(also listed as DANC 357, MUS 357, and TA 357)**

Prerequisites: ART 151 or MUS 150 or 160; DANC 157 or TA 152 or HS 150. Exploring health and wellness through participation in the creative arts - dance, visual arts, music and theatre arts.

358 Airbrush Painting (3)

Study in the use, care, and operation of the airbrush. Introduction to flat coverage, graduations of color, masking and stenciling, with an emphasis on realistic rendering. May be repeated to maximum of 6 units.

364 Intermediate Drawing (4)

Prerequisite: ART 159 or consent of instructor. Historical study in composition with diversified subjects. Comprehensive drawings in line, value and shape. Lecture 2 hours, activity 4 hours.

373 Creative Fashion Design (3)

Prerequisites: ART 203, 244. Basic studies in creative fashion design and body ornamentation formulated through the application of elements and principles of art.

374 Intermediate Painting (4)

Prerequisite: ART 155. Continued study of history, styles and content in painting with emphasis on development of individual concepts. Lecture 2 hours, activity 4 hours.

***377 Intermediate Photography (4)**

Prerequisite: ART 287. Development of individual creative approaches and philosophies in photography as well as strengthening of controls and techniques of black and white processes. Camera recommended. Lecture 2 hours, activity 4 hours.

380 Computer Graphics I (4)

Computers in art and design; descriptions, functions, visual problem solving, programming, computer graphics, applications in visual imagery and design. May be repeated to maximum of 8 units. Lecture 2 hours, activity 4 hours.

382 Computers in Fashion Merchandising (4)

Prerequisites: Art 206. Introductory computer course. Computers in art and design. Applications for apparel manufacturing, retailing, and promotion which include descriptions, functions, visual problem solving, and computer technology in the global marketplace. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

384 Computers in Fashion Design (4)

Prerequisite: Art 204. Introductory computer course. Computers in art and design. Manipulation and integration of two and three dimensional objects for problem solving using computer applications for apparel design. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

386 Computers in Textiles (4)

Prerequisite: Art 208, Introductory computer course. Computers in art and design. Information and specific computer applications for the textiles industry, including weaving and knitting technology and surface design. May include field trips. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

***387 Color Photography (4)**

Prerequisite: ART 377 or consent of instructor. Introduction to color films and papers; work with properties of color films and producing prints from color materials. Lecture 2 hours, activity 4 hours.

388 Illustration (4)

Prerequisites: ART 159, 203, 244. Study of the theoretical, historical and practical aspects of illustration with an emphasis on composition and drawing and painting techniques using various media. Lecture 2 hours, activity 4 hours.

400 Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. ART 401, 426, 499

***400 Development of Literacy in Visual Arts (4)**

Investigation of perceptual, expressive, historical, and cultural components associated with visual-aesthetic phenomena. Lectures, studio experience, and visits to art exhibits.

401 Proseminar: Critical Theories in Visual Arts (3)

Prerequisites: ART 101A or 101C; 426; senior standing as Art major or recommendation of department. Systematic approach to art theory, criticism, and evaluation within the visual arts; development of independent critical and artistic viewpoints with regard to creation of art forms.

402 Advanced Color Photography (4)

Prerequisite: ART 387 or consent of instructor. Advanced techniques, theories, history of color photography; student production of comprehensive body of work utilizing color processes. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

403 Advanced Three-Dimensional Design (4)

Prerequisite: ART 303. Advanced study of three-dimensional design with an emphasis on its expressive potential and functional properties. Studio projects explore traditional and experimental processes and technologies. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

404 Studio Seminar (4)

On-site examination of contemporary art in artists' studios, galleries and museums in Los Angeles. Practical application of theory through interaction with artists and arts professionals in their workplace.

***405 Exploring Art Concepts and Media (4)**

Prerequisite: Lower division art major or minor core. Exploration and analysis of art concepts and media suitable for developing expressive, appreciative, critical, and pedagogical skills. Lecture 2 hours, activity 4 hours.

406 Ancient Near Eastern Art and Archaeology (4)

Art and archaeology of ancient Mesopotamia, Egypt, Crete, and Greece. Principal monuments of architecture, sculpture, and the applied arts.

408 Advanced Graphic Communication Design (4)

Prerequisite: Art 308. Advanced theory and practice of graphic communication design using graphic processes and technologies. Project planning and development through study and application of professional practices. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

411 Greek and Roman Art (4)

Art of Greece, its development in Hellenistic and Roman times, and the Etruscan influences.

***412 Advanced Ceramic Art (4)**

Prerequisite: ART 307. Advanced techniques, concepts, analysis, and history of ceramic art. Student productions of ceramic art using varied methods and approaches. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

413 Advanced Lettering and Typography (4)

Prerequisite: ART 313. Advanced study in typographic communications; analysis of historical reference in the typographic arts; the use of technology in professional typographic practice. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

414 Advanced Painting (4)

Prerequisite: ART 374. Studio painting and pictorial organization. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

415 Foundations of Art (4)

Philosophical, historical, cultural, and psychological factors in creation of a response to visual-aesthetic form.

416 Medieval Art (4)

Principal monuments of Medieval architecture, sculpture, and painting covering the Celtic, Carolingian, Ottonian, Romanesque, and Gothic periods.

***417 Advanced Ceramic Processes (4)**

Prerequisite: ART 412. Advanced theories, analysis, and history of ceramic art, with emphasis on advanced application of ceramic techniques of forming, finishing, and firing to express individual concepts. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

418 Business Principles and Practices for Artists and Designers (4)

Business management for small design or studio offices; training in freelance procedures, billing, contracts, portfolios, licenses, and artist representation; survival strategies.

420 Textile and Apparel Economics (4)

Prerequisite: ECON 150 or 201 or 202. Examination of linkages between the textile and apparel complex industries on a global basis. Consideration of design, merchandising and textiles.

421 Baroque Art (4)

Art of Western Europe from 16th through late 17th century.

422 Interactive Design (4)

Prerequisites: ART 380, 480. The study and design of computer based interactive media including the effective organization and communication of ideas and information. May be repeated to maximum of 8 units.

423 Product Design (3)

Prerequisites: ART 332, 403. Manipulation of three-dimensional form relative to functional and merchandising requirements of industrial assignments. Activity 6 hours. May be repeated to maximum of 6 units.

426 Modern Art (4)

Evolution of modern painting, sculpture, and architecture since Impressionism; surrealism, Russian constructivism, and abstract expressionism.

***427 Advanced Jewelry and Metals (3)**

Prerequisite: ART 157 or consent of instructor. Advanced techniques, theories and history of jewelry and metals. The comprehensive study of design and non-ferrous metalworking techniques specifically related to jewelry and metals. Activity 6 hours. May be repeated to maximum of 9 units.

428 Advanced Interior Design (4)

Prerequisite: ART 328. Advanced study of commercial and residential interior design, including living space concepts, contract design, and casework. Various drawing processes and technologies are used. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

429 Advanced Sculpture (4)

Prerequisite: ART 314. Advanced techniques, theories, concepts, and history in sculpture. Student production of sculpture using varied methods and approaches. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

430 Fashion Merchandising Processes (4)

Prerequisites: ART 206, MKT 344. Merchandising processes and fashion promotion strategies: planning, buying, and control of fashion products.

431 Oriental Art (4)

Ancient graphic and plastic arts of China, Japan, India, and Persia. Evaluation of their contribution to art expressions of present day. Offered in two sections: China and Japan considered in one, and India and Persia in the other. May be repeated to maximum of 8 units.

432 Advanced Rendering (3)

Prerequisite: ART 332. Advanced study of rendering with intensive experience and practice with various media and techniques. Development of skills for professional presentations and portfolio. Activity 6 hours. May be repeated to maximum of 6 units.

433 Advanced Color (4)

Prerequisite: ART 333. Advanced study of color theory and color perception including the aesthetic, practical, optical, psychological, symbolic, historical and cultural aspects. Studio projects emphasize direct experience and experimentation. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

434 Advanced Painting Processes (4)

Prerequisite: ART 414. Techniques of painting; advanced studies in pictorial composition through process, theory and technique. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

***435 Exploring the Arts in Early Childhood (4)**

Prerequisite: ART 210 or 410. A conceptual and experimental approach to the interrelationships of visual arts and dance in the education of young children. Studio experiences included. Lecture 2 hours, activity 4 hours.

436 Renaissance Art (4)

Art of Europe from 15th and 16th centuries.

***438 Advanced Textile Design (4)**

Prerequisite: ART 338 or consent of instructor. Advanced theories, concepts, and procedures in print textile design. Includes use of computer as a design tool. May include field trips. Lecture 2 hours, activity 4 hours.

441 American Art (4)

History of painting, sculpture, architecture, and minor arts of America from colonial times to present.

442 Advanced Textiles (4)

Prerequisite: ART 208. Evaluation of research, technical developments, and issues related to the production and consumption of textile products.

443 Advanced Architectural Design (4)

Prerequisites: ART 343. Advanced study of architectural design, including client analysis, space planning and relationship of human dimensions and environment. Two-dimensional designs are translated into three-dimensional structures using technological processes and model building. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

444 Fashion Promotion (4)

Prerequisites: ART 206, 209; MKT 340. Merchandising process and strategies; advertising and sales promotion of fashion products.

446 Art of Latin America (4)

Art of Latin America from ancient civilizations to contemporary painting, crafts, and architecture.

448 Commercial Exhibition and Display Design (3)

Prerequisites: ART 303, 328. Theory and techniques of commercial exhibition and display design; evaluation and analysis of its communicative, aesthetic, and technical factors through practical application. Activity 6 hours. May be repeated to maximum of 9 units.

449 Video for Artists (4)

Prerequisite: Art 287 or consent of instructor. Examination of contemporary video art through required readings, viewing artists' videos and student production of video work. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

451 Mannerism: High Renaissance to Baroque (4)

Sixteenth century architecture, painting, sculpture, and minor arts from High Renaissance to Baroque.

452 Advanced Architectural Lighting Design (4)

Prerequisite: ART 352. Exploration of advanced, professional architectural lighting design theory, technology and energy management, using case studies to illustrate the application of principles. May include field trips. Lecture 2 hours, activity 4 hours.

454L,P Special Topics in Art (1–4)

Prerequisites: Upper division standing; courses as needed for specific topic. Current topics of special interest, as announced in Schedule of Classes. May be repeated to maximum of 9 units.

455 The Creative Genius in Art and Music (4) (also listed as MUS 455)

Great artists and musicians throughout history; their philosophy, innovations, accomplishments, and effects on culture and history.

458 Advanced Airbrush Painting (3)

Prerequisite: ART 358. Advanced studies in airbrush painting techniques. Utilization of various rendering effects with an emphasis on graphic depiction of subject matter and the naturalistic qualities of light and dark on the pictorial surface. May be repeated to maximum of 9 units.

459 Advanced Fashion Design Processes (4)

Prerequisite: ART 108 A and B, ART 204. Traditional and contemporary fashion design principles and techniques used for construction and assembly of garments. Tailoring techniques used for construction and assembly of garments. Tailoring techniques emphasized. Lecture 2 hours, activity 4 hours.

460 Multicultural Approaches to Visual Arts (4)

Prerequisites: ART 351, ANTH 250 (may be taken concurrently). Analysis of art experience as human behavior responsive to sociological, ecological, political and historical conditions in American and other cultures. Specially recommended for students preparing for bilingual/crosscultural specialist credential.

461 Oceanic and North American Indian Art (4)

Historic and traditional art of Pacific areas of Micronesia, Melanesia, Polynesia, and of American Northwest Coast and Southwest Indian art.

462 Textile Performance (4)

Prerequisite: Art 208. Laboratory evaluation, characterization, and analysis of textiles fabrics and finishes. Basic principles of textile testing, relationship between fabric structure and performance, and development of fabric specifications. Lecture 2 hours, activity 4 hours.

463 Portfolio Presentation (3)

Portfolio development techniques for art students including bookbinding and photography techniques; collecting, matting, and evaluating artwork. Preparatory to starting professional art career. Activity 6 hours. May be repeated to maximum of 6 units.

464 Advanced Life Composition (2)

Prerequisite: ART 244 ABC. Advanced drawing of human figure and composition, using various media and techniques. Activity 4 hours. May be repeated to maximum of 6 units.

466 Nineteenth Century Art (4)

Art of western Europe from David to end of nineteenth century. Prerequisite: ART 408. Advanced study and research in visual communication design and the use of processes and technologies relevant to professional practice. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

469 Historic Textiles (4)

Prerequisite: ART 208. Historic textiles from earliest times to present; records and preserved textiles viewed as reflections of life and textile development of countries and major civilizations.

470 Directed Field Work in Art/Art Therapy (1–4)

Prerequisites: Art major core, ART 425 or 445. Supervised art observation and participation in nonschool recreation, therapy or nontraditional situations. Lecture 1 hour, field work 9 hours weekly. May be repeated to maximum of 8 units.

471 History of Costume (4)

Historic costume from earliest times to present as related to the art of dress. Records and preserved costume viewed as reflections of life and costume development of countries and major civilizations.

***472 Advanced Enameling (3)**

Prerequisite: ART 327 or instructor consent. Advanced level of study of concepts and processes in enameling. Further development of design and enameling techniques specifically related to enameling use in jewelry and metals. May be repeated to maximum of 9 units. Activity 6 hours.

473 Advanced Creative Fashion Design (3)

Prerequisite: ART 373. Advanced design theories and concepts of creative fashion and body ornamentation. Activity 6 hours. May be repeated to maximum of 6 units.

***474 Printmaking: Etching (3)**

Graphic processes of etching; work in black and white and color. Activity 6 hours. May be repeated to maximum of 12 units.

475 Visual Arts and Human Development (4)

Analysis of relationships between the visual arts and aspects of human development through case study research.

476 Early Christian and Byzantine Art (4)

Prerequisite: ART 101A. Art history from 250 to 1453 AD in Eastern Empire, to 476 AD in Western Roman Empire; covers key monuments of architecture, sculpture, painting, and applied arts.

477 History of Photography (4)

Prerequisites: ART 101ABC. History of photography from 19th century to present with an emphasis on 20th century practice. Relationship of photography with history, culture, technology, art, social values and other concerns.

***479 Silkscreen/Serigraphy (3)**

History, processes, production of fine prints using silk screens; color, and black and white printing. May be repeated to maximum of 6 units.

480 Computer Graphics II (4)

Prerequisite: ART 380. Continued studies in computers for artists and designers; use of C language; graphics procedures; frame-buffer technology and applications. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

481 African Art (4)

Art of sub-Saharan Africa. Includes historic art of Benin, Ghana, and Congo kingdoms and traditional art of Western Sudan, Guinea Coast, and the Congo.

482 Photographic Manipulations and Extensions (4)

Prerequisite: ART 377 or consent of instructor. Use of photographs as part of broad vocabulary of processes; exploration of techniques and methods outside mainstream of photography. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

483 Photographic Studio Practices (4)

Prerequisite: ART 377 or consent of instructor. Introduction to techniques in studio lighting and related activities through lecture and practical demonstrations. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

484 Advanced Sculpture Processes (4)

Prerequisite: ART 429. Advanced theories, analysis, and history of sculptural art, with emphasis on advanced application of sculpture techniques to express individual concepts. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

485 Ecology and Environment (4)

Relationships between aesthetics and ecosystems, social structures and environments.

487 Advanced Photography (4)

Prerequisite: ART 377 or consent of instructor. Advanced experimental photographic techniques including examination of critical, creative problems; emphasis on individual development and growth. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

488 Advanced Illustration (4)

Prerequisite: ART 388. Advanced study of the theoretical, historical and practical aspects of illustration. Exploration and analysis of composition, story line, and dramatization. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

489 Advanced Fashion Design (4)

Prerequisites: ART 106, 108, 204. Principles and techniques of advanced fashion design. Analysis of interrelationship among materials, fashion design, and the human figure. Emphasis on draping technique. Lecture 2 hours, activity 4 hours.

491 Art Since 1945 (4)

Prerequisite: ART 426. Beginning with surrealism and abstract expressionism, this course delineates the many styles of the 1960s and focuses upon postmodern art of the 1970s and 1980s.

492 Senior Project (4)

- 492 D- Design
- 492 F- Fashion and Textiles
- 492 S- Studio Arts

Prerequisite: Completion of an Art Option area and instructor consent. Advanced problems in specific Art Option area. Examination of the major themes, theories, and research in art. Development of a portfolio, and culminating senior project. Lecture 2 hours, activity 4 hours.

493 Digital Image Processing and Illustration (4)

Prerequisite: ART 408. Advanced study in the use of digital technology and methodology in image processing and illustration. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 8 units.

494 Computer Graphics Animation (4)

Prerequisite: ART 480. Computer graphics animation for artists and designers: storyboard, object design, animation, and production. Lecture 2 hours, activity 4 hours. May be repeated to maximum of 12 units.

495 Directed Fieldwork In Fashion and Textiles (1-4)

Prerequisite: Thirty-five units fashion and textiles major coursework, including 15 upper division units, and departmental approval. Supervised experience utilizing professional preparation in field setting. Graded CR/NC.

496 Advanced Computer Animation (4)

Prerequisites: ART 380, 480, 494. Development and production of a complete computer animated work from storyboard to post-production. May be repeated up to 8 units.

**498 Capstone Animation Project (4, 4, 4)
(also listed as BCST 498)**

Prerequisites: Consent of the instructor plus one of the following sequences: ART 480, 494, 496, or BCST 377, 378, 381. The design, pre-production, production and post-production of an advanced animated work suitable for portfolio presentation. Up to six units may be taken by a student who is assisting on someone else's Capstone Animation Project. Activity 8 hours. 12 units required for animation majors.

499 Undergraduate Directed Study (1-3)

Prerequisites: Senior standing, completion of all upper division course work in area of study, consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly and a final report submitted. Limited to 3 units per quarter. May be repeated to maximum of 9 units.

Graduate Level Courses (ART)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: ART 401, 426, 499

Classified graduate standing is required for admission to all 500 level courses

500 Seminar: Art Education (3)

Prerequisites: Teaching experience, 20 units in art. Opportunities for teachers to evaluate their experiences in light of new techniques and concepts; problems resolved through group interaction; background in subject matter increased through research and experimentation. May be repeated to maximum of 6 units.

501 Seminar: Art History (4)

Prerequisite: Eight units of upper division art history. Research into pertinent topic in art history. Presentation and discussion of research papers. May be repeated to maximum of 8 units.

502 Graduate Problems in Ceramics, Metals, and Textiles (3)

Prerequisite: Eight units of crafts, including 6 in specific area. Individual investigation in specific area of crafts; advanced work in laboratory and research under specialist in field. May be repeated to maximum of 9 units.

502M MFA Seminar: Visual Arts (3)

Prerequisite: Classified standing in MFA program. Critical approach to the visual arts through examination of the roles and works of artists in society. May be repeated to maximum of 9 units.

503 Graduate Problems in Design (3)

Prerequisite: Six units of design. Independent and interdependent library and laboratory research into problems of contemporary design permitting students to pursue special interests in advanced areas. May be repeated to maximum of 9 units.

504 Graduate Problems in Painting, Sculpture, and Graphic Arts (3)

Prerequisite: Eight units in painting, sculpture, and graphic arts option. Independent laboratory development in given approach to painting, sculpture, and graphic arts. Development of individuality and depth in work encouraged; periodic group analysis. May be repeated to maximum of 9 units.

504M MFA Seminar: Studio Art (3)

Prerequisite: Classified standing in MFA program. Philosophical, conceptual, and practical aspects of professional studio arts. May be repeated to maximum of 9 units.

505 Research in Art Education (3)

Prerequisite: ART 415, instructor consent. Investigation of both conceptual and procedural aspects of historical, descriptive, and experimental research relevant to practice of art education.

506 Experimental Fashion Design (3)

Prerequisite: ART 489. Theory of fashion design and its application; creative designing through experimentation. Lecture-Laboratory 6 hours.

508M MFA Seminar: Design (3)

Prerequisite: Classified standing in MFA program. Aesthetic, functional, and technical aspects of professional design. May be repeated to maximum of 9 units.

509 Seminar: Textiles and Clothing (3)

Prerequisites: 4-8 units of 400 or 500-level textiles and/or clothing courses. In-depth study of selected topics in textiles and clothing

510 Art History in Art Education (3)

Prerequisites: Teaching experience, 20 units of art. Theories and methods for investigation of history of art forms.

512 Graduate Photography (3)

Prerequisite: Three upper division photography courses. Intensive study and production work in contemporary photography, current theories, concepts, and techniques. May be repeated to maximum of 12 units.

513M MFA Seminar: Photography (4)

Prerequisite: Classified graduate standing in MFA program. Philosophical, conceptual, and theoretical aspects of art photography as they relate to contemporary art photography practices. May be repeated to maximum of 8 units.

514 Readings in Sociopsychological Aspects of Clothing (4)

Prerequisites: basic courses in psychology and sociology/anthropology. Clothing as an aspect of human behavior; theories and research in social sciences with clothing as a variable; clothing in relation to individual and social behavior.

515 Art Criticism in Art Education (3)

Prerequisites: Teaching experience, 20 units of art including ART 401. Theories and methods for investigation of critical analysis of art forms.

517 Graduate Ceramics (3)

Prerequisite: ART 417. Individual studio work in ceramics stressing advanced competence in technique and concepts. Periodic group presentations and critical analysis. May be repeated to maximum of 18 units. Activity 6 hours.

520 Seminar: Art Therapy (4)

Prerequisites: ART 445, 465. Exploration of current practices and issues in art therapy. May be repeated to maximum of 8 units as instructor changes.

530 The Arts in Aesthetic Education (4)

Prerequisites: Nine units of art, instructor consent for nonmajors. Bases of aesthetic responses to visual, literary, performing arts.

531 Research Methodology in Art (4)

Research methodology and requirements related to thesis, project report, and exhibition statement in Department of Art. Required of all master's degree candidates.

540 Case Study and Presentation (4)

Prerequisites: ART 445, 465; PSY 436B. Analysis and application of principles and techniques for evaluating client condition and presenting reports for related mental health professionals.

544 Graduate Painting and Drawing (3)

Prerequisite: Six units of upper division painting and drawing. Studio work in various media, stressing professional competence in techniques and concepts of art. May be repeated to maximum of 18 units. Activity 6 hours.

550 Problems in Clinical Art Therapy (4)

Prerequisites: ART 445, 465; PSY 431, 436B, 438. Current issues and concerns in clinical art therapy practice.

554L Special Topics in Art (1–4)

Prerequisite: Instructor consent (specific prerequisite subject to change, depending upon topic of emphasis or content requirements of the course). Selected topics reflecting current issues, problems, and interests in art. May be repeated for credit to maximum of 9 units as subject matter changes.

554P Special Topics in Art (1–4)

Prerequisite: Instructor consent (specific prerequisite subject to change, depending upon topic of emphasis or content requirements of the course). Selected topics reflecting current issues, problems, and interests in art. May be repeated for credit to maximum of 9 units as subject matter changes.

560 Family Art Therapy (4)

Prerequisites: ART 445, 465; PSY 426, 431, 438, 536. Emphasis on utilization of art therapy theory and techniques especially suited for family groups.

570 Experimental Art Therapy (4)

Prerequisites: ART 445, 465, 470. Research in art therapy leading to new approaches based on principles of concern for creativity and knowledge.

574 Graduate Printmaking (3)

Prerequisite: Six units of ART 424 or 474. Work in selection of printmaking media stressing professional competence in techniques and art concepts. May be repeated to maximum of 9 units. Activity 6 hours.

577 Graduate Problems in Fashion (4)

Prerequisite: Eight units in Fashion and Textiles Option. Individual investigation in fashion design, merchandising, and textiles; advanced work in laboratory and research. May be repeated to 12 units.

584 Graduate Sculpture (3)

Prerequisite: ART 484. Individual studio work in sculpture building upon undergraduate sculpture experiences. Periodic group presentations and critical analysis. May be repeated to maximum of 18 units. Activity 6 hours.

595 Directed Field Work in Art/Art Therapy (1–4)

Prerequisites: ART 470 plus undergraduate Art major. Supervised experience in art therapy situations. May be repeated to maximum of 8 units.

595M MFA Professional Field Work in Art (1–9)

Prerequisite: Classified standing in MFA program. Supervised field work experience in professional art industry: museums, publications, design, and business. May be repeated to maximum of 9 units.

598 Graduate Directed Study (1–3)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field; regular conferences with sponsor. May be repeated to maximum of 9 units.

598M MFA Directed Study (1–12)

Prerequisite: Instructor consent to act as sponsor. Independent directed study of advanced topics in professional art fields. Regular conferences with sponsor. May be repeated to maximum of 12 units.

599 Thesis, Project, or Combination Written Report and Project (1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis, project, or combination written report and project. Must be repeated to maximum of 6 units. Graded CR/NC.

599M MFA Project (1–12)

Prerequisite: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research resulting in MFA project accompanied by a written abstract. May be repeated to maximum of 12 units. Graded CR/NC.

599T Art Therapy Thesis (1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in thesis. May be repeated to maximum of 12 units. Graded CR/NC.

Program in

Asian and Asian American Studies

SCHOOL OF ARTS AND LETTERS

Program Office

Music 232

Phone: (323) 343-4004

E-mail: asianam@calstatela.edu

Website: www.calstatela.edu/academic/asianam/

The minor listed below is interdisciplinary in nature and is open to interested students in all majors throughout the campus. The program is administered by the School of Arts and Letters.

The Faculty

Professor of Japanese and Coordinator, Eri F. Yasuhara

Undergraduate Programs

Minor in Asian Studies**Requirements for the Minor (32 units)*****Required course (4 units)***

AAPS 200 Pacific Asian Culture, People, and Society (4)

Electives (28 units)

With adviser guidance and approval, select a total of 28 units of electives from the following three areas, with no more than 12 units from any one area. Students are strongly encouraged to take courses that represent at least two different countries.

Area I: Language and Literature

AAPS 350

CHIN 200ABC, 201ABC, 300AB, 408, 410

JAPN 200ABC, 230, 300ABC, 307, 408, 410

Other intermediate or advanced Asian language courses.

Area II: Art, Music, Philosophy, History, and Religious Studies

ART 431

CHIN 310

HIST 494ABC, 495AB, 496

JAPN 310, 311, 460

PHIL 436, 437

RELS 410

Area III: Anthropology, Geography, Political Science, and Sociology

ANTH 414

POLS 452

GEOG 424, 425, 430, 434

SOC 435

List of Courses (AAPS) - Undergraduate Level

Lower Division Course**200 Pacific Asian Culture, People, and Society (4)**

Introductory survey of the people, history, society, culture, government, and economies of Pacific Asia. Focus on similarities and differences that impact understanding of and among various Asian groups. **GE D**

Upper Division Courses**350 Ancient East Asian Literature and the Modern World (4)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Meanings of "ancient" and "modern" in East Asian literature; use of Western concepts of modernity to challenge Asian traditions; use of ancient East Asian literature to impact Western "modernity." **GE Theme I**

499 Undergraduate Directed Study (1-4)

Prerequisites: Consent of faculty sponsor, approval of proposed project before registration, ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report. May be repeated to maximum of 8 units.

Department of**Biology and Microbiology**

School of Natural and Social Sciences

DEPARTMENT OFFICE

Biological Sciences 142

Phone: (323) 343-2050

Email: Biomicro@calstatela.edu

Website: <http://nss.calstatela.edu/biology/index.htm>

The Department of Biology and Microbiology offers programs leading to Bachelor of Science and Master of Science degrees in Biology, and a Bachelor of Science degree in Microbiology with options in Microbiology and Clinical Laboratory Science. Students pursuing a degree in microbiology may qualify for entrance to medical or dental schools by including appropriate elective courses in their program.

The Faculty

Professors: Wayne Paul Alley, Roger R. Bowers, Theodore J. Crovello, Robert A. Desharnais, Margaret J. Hartman, James Henrickson, Margaret Jefferson, Genaro A. Lopez, Rosemarie Marshall, Alan E. Muchlinski (Chair), David Pearson, Betsy Peitz, Carlos D. Robles, Howard Rosen, David L. Soltz.

Associate Professors: Kenneth L. Anderson, Richard W. Fleming, John A. Gamon, Beverly Krilowicz, Nancy L. McQueen, Robert R. Nakamura, Sandra B. Sharp.

Assistant Professors: Philip S. LaPolt, Amelia A. Russo-Neustadt, Sonsoles de Lacalle, Elizabeth Torres.

Emeriti: Samuel M. Caplin, Brian Capon, William R. Hanson, James W. Harvey, George E. Jakway, Donald C. Lowrie, Daniel P. Mahoney, Evan K. Oyakawa, Mercer Price Russell, Joseph T. Seto, Richard M. Straw, Velma J. Vance, Richard J. Vogl.

Undergraduate Programs**Bachelor of Science Degree in Biology**

The Bachelor of Science degree in Biology provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology with the more recent advances. The degree may lead to graduate study in biology; entrance into professional schools in medicine, dentistry, or pharmacy; and employment in applied or technical aspects of biology including the biotechnology industry and environmental science areas. In addition to the usual course offerings, the Department of Biology and Microbiology participates in the Southern California Ocean Studies Institute (SCOSI) and the California Desert Studies Consortium which are explained in detail under *Consortia* in the first chapter of this catalog. The department also participates in the Interdisciplinary Bachelor of Science degree program in Natural Science.

Departmental Honors Program

The Department of Biology and Microbiology offers an honors program for upper division biology students who have completed 94 quarter units, including 40 units in the major, with a minimum B (3.0) grade point average both overall and in the major. Students shall have completed 24 units of the major in residence at Cal State L.A.

The honors program introduces superior students to intensive research experience in biology. Honors students are assisted by an honors adviser and two other committee members. Enrollment in BIOL 396, Honors Study in Biology, for 5 units is required, and enrollment in BIOL 499, Undergraduate Directed Study, for 1–4 units, is optional. A prospectus, a written thesis, and a final oral examination about the thesis, administered by the committee, are required parts of the program. Diplomas and transcripts of honors program graduates are designated: "Graduated with Departmental Honors in Biology."

Requirements for the Major (119 units)

Of the 198 units required for the Bachelor of Science degree in Biology, the major requires 119 while the general education program and other university requirements total 66. The remaining units are earned through free elective courses. Competence in mathematics through MATH 230 is required. It is recommended that students complete at least one year of a foreign language.

Successful completion of the major requires a minimum C (2.0) overall grade point average in required courses taken in residence and in all required courses (in residence and transferred). At least 16 units of upper division course work that fulfills major requirements must be taken in residence (not to include courses graded CR/NC).

Lower Division Required Courses (54 units)

BIOL	101–103	Principles of Biology I–III	(5, 5, 4)
CHEM	101–103	General Chemistry I–III	(5, 5, 5)
		plus	
CHEM	201	Quantitative Analysis	(5)
MATH	206	Calculus I: Differentiation	(4)
MATH	230	Calculus for Biologists	(4)
PHYS	101–103	Physics	(4, 4, 4)

Upper Division Required Courses (33 units)

BIOL	300	Biometrics	(4)
BIOL	320	Writing for Biologists	(4)
BIOL	340	General Genetics	(4)
BIOL	360	General Ecology	(4)
BIOL	380	Cell Biology	(4)
CHEM	301ABC	Organic Chemistry	(3, 3, 3) and
CHEM	302AB	Organic Chemistry Laboratory	(2, 2)

Electives (32 units)

With prior written approval of their adviser, students must select certain upper division courses in biology and other natural sciences, mathematics, and physical sciences. No upper division course with the suffix *N* or upper division general education course may be used to fulfill major requirements.

Bachelor of Science Degree in Microbiology

The Bachelor of Science Degree in Microbiology offers students academic instruction in two options. One qualifies students for training positions leading to licensure as registered clinical laboratory scientists. The other provides the basic academic preparation in microbiology that qualifies students for graduate studies and for various employment opportunities in the biotechnology industry, public health, environmental applications, the pharmaceutical, fermentation, sanitation, and dairy industries, and for research positions in university/private/clinical laboratories.

Requirements for the Major (120 units)

Of the 196 units required for the Bachelor of Science Degree in Microbiology, the major requires 120. The common core for both options requires 105-106 units. In addition, 14-15 units must be taken, with adviser approval, to satisfy the requirements for the particular option selected.

Successful completion of the major requires a minimum C (2.0) overall grade point average in all required courses. At least 16 units of upper division course work that fulfills major requirements must be taken in residence (not to include courses graded *CR/NC*).

Lower Division Required Core Courses (58 units)

MICR 200AB	General Microbiology (5, 3)
BIOL 101, 102	Principles of Biology I, II (5, 5)
CHEM 101–103	General Chemistry (5, 5, 5)
CHEM 201	Quantitative Analysis (5)
MATH 102	College Algebra (4)
MATH 103	Algebra and Trigonometry (4)
PHYS 101–103	Physics (4, 4, 4)

Upper Division Required Core Courses (47 or 48 units)

MICR 301	General Medical Microbiology (4)
MICR 302	Pathogenic Bacteriology (5)
MICR 304	Immunology and Serology (5)
MICR 331	Structure and Function of Bacteria (3)
MICR 340	Microbial Genetics (3)
BIOL 320	Writing for Biologists (4) or
CHEM 360	Writing for Chemist (3) or
ENGL 306	Technical Writing (4)
CHEM 301ABC	Organic Chemistry (3, 3, 3)
CHEM 302AB	Organic Chemistry Laboratory (2, 2)
CHEM 431ABC	Biochemistry (3, 3, 3)
CHEM 432A	Biochemistry Laboratory (2)

Option in Clinical Laboratory Science (14-15 units)

Students selecting this option will be qualified to apply for postbaccalaureate training in clinical laboratory science. Students in this option may also enter graduate school, dental school, and other professional programs.

Select from the following courses (14-15 units) with adviser approval:

MICR 300	Overview of Clinical Laboratory Professions (1)
MICR 398	Cooperative Education (1-4)
MICR 401	General Virology (3)
MICR 403	Pathogenic Fungi (3)
MICR 410	Hematology (4)
MICR 412	Introduction to Epidemiology (4)
MICR 420	Immunohematology (3)
MICR 454L	Special Topics in Microbiology (1-4 each)
MICR 499	Undergraduate Directed Study (1-4)
BIOL 103	Principles of Biology III (4)
BIOL 200AB	Human Anatomy and Physiology (5, 5)
BIOL 300	Genetics (4)
BIOL 463	Biomedical Microanalysis (4)
CRIM 409	Forensic Science (4)
HS 301	Cardiopulmonary Resuscitation and Basic Life Support Systems (1)
MGMT 307	Management and Organizational Behavior (4)

Option in Microbiology (14-15 units)

Students selecting this option will have the academic preparation to enter graduate school in the fields of microbiology or molecular biology, or they may elect to work in research, environmental, dairy, food, pharmaceutical, agricultural, or other industrial applications.

Select from the following courses (14-15 units) with adviser approval:

MICR 300	Overview of Clinical Laboratory Professions (1)
MICR 398	Cooperative Education (1-4)
MICR 401	General Virology (3)
MICR 403	Pathogenic Fungi (3)
MICR 430	Bacterial Physiology (3)
MICR 433	Bacterial Physiology Laboratory (2)
MICR 454L	Special Topics in Microbiology (1-4 each)
MICR 499	Undergraduate Directed Study (1-4)
BIOL 103	Principles of Biology III (4)
BIOL 300	Biometrics (4)
BIOL 340	General Genetics (4)
BIOL 380	Cell Biology (4)
BIOL 402	Electron Microscopy (4)
BIOL 417	Gene Manipulation (4)
CRIM 409	Forensic Science (4)

Minor in Biology

A Biology minor, which is available for students majoring in other fields, offers a general exposure that is beneficial in some areas of environmental science, recreation, conservation, and comparable fields.

A total of 30-35 units is required, including 19-23 units in lower division courses and 11-12 units in upper division electives.

Successful completion of the minor requires a C (2.0) overall grade point average for required courses taken in residence and for all required courses (in residence and transferred). At least 8 units of upper division course work that fulfills requirements of the minor must be taken in residence (not to include courses graded *CR/NC*).

Requirements for the Minor (30-35 units)

Lower Division Required Courses (19-23 units)

BIOL 101, 102, 103

CHEM 151

MATH 102 (May be met by satisfactory performance on mathematics placement examination or by high school preparation certified as adequate by Department of Mathematics and Computer Science.)

Upper Division Electives in Biology (11-12 units)

With adviser approval, choose 3 courses from among upper division courses in biology, excluding 454L,P, 499, and courses with the suffix N.

Minor in Microbiology

The department offers a minor in Microbiology for students majoring in other fields. The minor consists of a 22-unit core and 8 units of electives. The purpose of this minor is to allow students from a variety of related majors the opportunity to focus a portion of their baccalaureate course work on microbiology in order to qualify them for postbaccalaureate positions requiring such knowledge. Chemistry 101, 301AB, and 302AB are prerequisite to several of the courses in the minor. Interested students are urged to consult with a microbiology faculty member for advisement before beginning the minor.

Requirements for the Minor (30 units)

Required Core (22 units)

BIOL 102 Principles of Biology II (5)

CHEM 102 General Chemistry II (5)

MICR 200AB General Microbiology (5, 3)

MICR 301 General Medical Microbiology (4)

Electives (8 units)

(select 8 units from the following)

MICR 302, 304, 331, 340, 401, 412, 430, 433

The Credential Program

The Department of Biology and Microbiology participates in the interdisciplinary Bachelor of Science degree program in Natural Science, which satisfies the subject matter requirements for the Single Subject credential in Science. That program is described later in this chapter of the catalog. Students should consult advisers in the department and in the Charter School of Education. Refer to the undergraduate *Charter School of Education* chapter of this catalog for regulations governing all teaching credential programs.

Supplementary Authorization for Single Subject Teaching Credential (31 units)

Holders of a Single Subject teaching credential, issued by the state of California in a subject other than Science, may supplement that credential with an authorization in Biological Sciences at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with a grade of C or higher in each course. The course work must include one year sequence of courses in at least two of the subject areas. At least one of the courses must include a laboratory component. For other requirements governing issuance of this authorization, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (31 units):

BIOL 101-103 Principles of Biology I-III (5, 5, 4)

BIOL 200A Human Anatomy and Physiology I (5)

BIOL 300 Biometrics (4)

BIOL 340 General Genetics (4)

BIOL 360 General Ecology (4)

Graduate and Postbaccalaureate Programs

Master of Science Degree in Biology

The Master of Science degree in Biology is designed to prepare students for biological research, doctoral study, technical positions in university, hospital and public health laboratories, the biotechnology industry or other industry settings, government agencies, and community college teaching. Graduate students may pursue the degree in any of the following areas of specialization: animal physiology, aquatic biology, cell biology, developmental biology, ecology, electron microscopy, entomology, environmental biology, evolution, genetic engineering, genetics, histology and anatomy, invertebrate zoology, microbiology, molecular biology, physiological ecology, plant anatomy, plant physiology, plant taxonomy, tissue culture, or vertebrate zoology.

Admission to the Program

Application to the Department of Biology and Microbiology and the University is required. The completed departmental application, together with transcripts of all previous college work and three letters of recommendation, must be received by the department prior to the following deadlines:

- August 1 for admission to Fall Quarter
- February 1 for admission to Spring Quarter

Applications will be reviewed by the Department and assessed based on the completed application form and supporting materials.

Applicants are expected to possess a baccalaureate in a biological science, such as biochemistry, biology, medical technology, or microbiology, equivalent to the Bachelor of Science degree offered at Cal State L. A. Applicants may be admitted to the degree program in *classified* or *conditionally classified* standing. Classified standing is granted to those accepted applicants who have a minimum 2.75 grade point average in their last 90 quarter units attempted. Conditionally classified standing is granted to those accepted applicants whose grade point average in their last 90 quarter units attempted is between 2.5 and 2.74. Conditionally classified students must achieve a *B* (3.0) grade point average in four qualifying courses (to be approved in advance by the graduate adviser) that should be completed by the end of their second quarter of graduate study and must be among the first six courses completed.

Applicants who wish to enter the program from outside the biological science area must complete the following courses (or equivalents) to be eligible for graduate status in the Biology and Microbiology Department:

BIOL	101–103	Principles of Biology (5, 5, 4)
BIOL	300	Biometrics (4)
BIOL	340	General Genetics (4)
BIOL	360	General Ecology (4)
BIOL	380	Cell Biology (4)
CHEM	101–103	General Chemistry I, II, III (5, 5, 5)
CHEM	301ABC	Organic Chemistry (3, 3, 3)
CHEM	302AB	Organic Chemistry Laboratory (2, 2)
PHYS	101–103	Physics (4, 4, 4)

Requirements for the Degree (45 units)

A minimum of 45 units is required, with at least 23 in 500-level courses. A thesis is required. All students must take BIOL 510 (Seminar: Biology) twice during their first year in classified graduate standing. Students also must fulfill all University requirements including the Graduation Writing Assessment Requirement (GWAR). All students must present their thesis research in a department seminar.

The M.S. degree requires a minimum of 22 units of 400 or 500-level elective courses in biology or related fields. These courses are selected in consultation with an adviser and should provide the student with the necessary background for thesis research.

The M.S. degree also requires a minimum of two graduate seminar courses (3 units each) in addition to BIOL 510 (1,1) and one of the following options:

BIOL 595	Individual Research in Gene Manipulation (4)
BIOL 597	Graduate Research (1-6)
BIOL 599	Thesis (9) or
BIOL 597	Graduate Research (6)
BIOL 599	Thesis (9)

Before enrolling in BIOL 597 and 599, students prepare a research prospectus and have it approved by their examining committee and the departmental graduate studies committee. This prospectus must be approved within three quarters of the date they receive classified graduate standing in order for them to remain eligible for assistantships.

Before being awarded the M.S. degree, students must pass a final oral examination administered by the thesis committee and the Department of Biology and Microbiology and must present their thesis research at a department seminar.

Certificate Program in Biotechnology

This postbaccalaureate credit certificate program provides intensive theoretical and laboratory training in the techniques and application of genetic engineering and related technologies. The program is designed to prepare students for

employment in industrial or academic research positions or for advanced study in molecular biology. Courses taken to fulfill certificate requirements may also be applied toward the master's degree in biology.

The certificate program requires completion of a minimum of 26 units, taken in postbaccalaureate or graduate standing, of which 19 are in required courses and seven or more are in electives. Refer to the *Graduate Study* chapter of this catalog for general information governing all certificate programs.

Prerequisites for Admission to the Program:

Admission, in classified graduate standing, to the Department of Biology and Microbiology or the Department of Chemistry and Biochemistry; Completion with a B (3.0) grade point average or higher, of the following courses or equivalents:

BIOL 380	Cell Biology (lecture and laboratory) or
MICR 340	Microbial Genetics
CHEM 431ABC	Biochemistry (lecture)
CHEM 432AB	Biochemistry (laboratory) (recommended)

As space is available, students who have not completed these prerequisites may be admitted to a core course (see below) with the consent of the instructor, but award of the certificate is contingent upon completion of all prerequisites for the program. Students who have had neither a laboratory course in nor employment experience with sterile microbiological techniques must complete MICR 202 (Microbiology Laboratory for Health-Related Sciences—2 units) during their first quarter in the certificate program.

Requirements for the Certificate (minimum 26 units)

Required Core (19 units)

BIOL 417	Principles of Gene Manipulation (4)
BIOL 517	Seminar: Gene Manipulation (3)
BIOL 519	Laboratory Experiments in Gene Manipulation (8)
BIOL 595	Individual Research in Gene Manipulation (4)

Electives (minimum 7 units)

Select from following; include no more than 6 units in seminars.

BIOL 413	Molecular Diagnostics (4)
BIOL 416	Molecular Genetics (4)
BIOL 437	Advanced Cell Physiology (4)
BIOL 515	Seminar: Genetics (3)
BIOL 516	Microbial Genetics (3)
BIOL 525	Seminar: Developmental Biology (3)
BIOL 539	Seminar: Cell Biology (3)
CHEM 432AB	Biochemistry Laboratory (2, 2)
CHEM 503	Advanced Biochemistry (3)
MICR 401	General Virology (3)
MICR 430	Bacterial Physiology (3)
MICR 433	Bacterial Physiology Laboratory (2)

List of Courses - Undergraduate Level

Courses in Biology (BIOL)

Lower Division Courses

101 Principles of Biology I (5)

Prerequisite: One year of high school biology. Introduction to organismic animal biology, survey of phyla, function and development of organ systems, and adaptation to environment. Recommended for science majors. Lecture 3 hours, laboratory 6 hours. **BIOL 101+102+103 = CAN BIOL SEQ A**

102 Principles of Biology II (5)

Prerequisite: One year of high school biology. Survey of plant phyla, relationships of structure to function, unique adaptations to environment; evolution and economic roles of plants. Recommended for science majors. Lecture 3 hours, laboratory 6 hours. **BIOL 101+102+103 = CAN BIOL SEQ A**

103 Principles of Biology III (4)

Prerequisites: Grades of C or higher in BIOL 101 and 102. Corequisite: CHEM 101 or 151. Principles of genetic coding and transfer, ecology, and evolution. Lecture 3 hours, recitation 1 hour. **BIOL 101+102+103 CAN BIOL SEQ A**

**140 Science Orientation (2)
(also listed as CHEM 140)**

Prerequisite: Instructor consent. Exploration of skills essential for success in the sciences; presentations by professional scientists. No credit toward science majors. Graded CR/NC.

151 Genetics and Human Affairs (4)

Basic principles of inheritance as they relate to humans and human diseases; the structure and function of DNA, and the use and manipulation of genes and DNA to benefit humans. Lecture 4 hours. No credit toward biology major or minor.

GE B3**154 Selected Topics in Biology (1–4)**

Topics of current interest in biology as announced in *Schedule of Classes*. **No credit toward Biology major or minor.**

155 Animal Biology (4)

Introductory organismal animal biology for non-majors with an emphasis on scientific methodology and basic biological principles; topics include cells, tissues, organ system structure and function, genetics evolution, diversity, behavior, ecology. Lecture 3 hours, laboratory 3 hours. No credit toward biology major or minor.

GE B1**156 Plant Biology (4)**

Structure and function of plants with emphasis on their adaptations to the environment and their importance to humans. Lecture 3 hours, laboratory 3 hours. No credit toward biology major or minor.

GE B1**157 Learning Science through Inquiry (4)
(also listed as PHYS 157)**

Hands-on exploration by the scientific method of biology and physics topics, e.g. plant growth and sound. The emphasis is on individual and group learning through inquiry based investigation and student directed research. Activity 6 hours. No credit toward Biology/Physics major or minor.

GE B3**165 Humans and the Biological Environment (4)**

Global effects of human overpopulation and human activities on the biological environment. Emphasis on how wildlife and human health are affected by contemporary forms of ecosystem alteration and pollution. Lecture 4 hours, designed for students not majoring in science. **No credit toward Biology major or minor.**

GE B3**200A Human Anatomy and Physiology I (5)**

Prerequisite or corequisite: CHEM 151. Structure and function of the cell and tissue; anatomy and physiology of the skeletal, muscular, digestive, and urinary systems. Lecture 3 hours, laboratory 6 hours. **No credit toward Biology major or minor.**

200B Human Anatomy and Physiology II (5)

Prerequisite: BIOL 200A. Anatomy and physiology of the cardiovascular, respiratory, nervous, endocrine, and reproductive systems. Lecture 3 hours, laboratory 6 hours. **No credit toward Biology major or minor.**

Upper Division Courses**300 Biometrics (4)**

Prerequisites: Grade of C or higher in BIOL 103; MATH 103. Statistical analysis applied to biological problems, with emphasis on sampling, experimental design, chi-square analysis, t-test, analysis of variance, regression analysis, and correlation analysis. Lecture 3 hours, laboratory 3 hours.

320 Writing for Biologists (4)

Prerequisites: BIOL 300, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Introduction to writing skills and techniques necessary for presentation of biological information; intensive practice in writing abstracts, reports, reviews, and other forms of scientific papers. Lecture 2 hours, activity 6 hours.

326N Agroecology in the Developing World (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Human impact on the environment and how environmental factors have influenced human society, with specific emphasis on agricultural systems throughout the world. Lecture 4 hours. No credit toward Biology major or minor.

GE Theme A**340 General Genetics (4)**

Prerequisite: BIOL 300. Principles of classical and molecular genetics as demonstrated in plants, animals, and microorganisms; emphasis on mechanisms of inheritance, structure of genetic material, breeding experiments with suitable organisms, analysis and interpretation of data. Lecture 3 hours, laboratory 3 hours.

**341N Evolution of Earth and Life through Time (4)
(also listed with GEOL 341)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Evolution of prehistoric life and geological features of the earth. Catastrophic extinctions of dinosaurs and other life forms. The drifting, rifting, colliding continents. Ice ages, volcanoes, earthquakes, and mountain building (No credit for Biology major or minor).

GE Theme G**355N Scientific Perspectives on Global Change (4)
(also listed as CHEM 355N and GEOL 355)**

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block B. Natural and human-induced origins of global change; alteration of earth's natural cycles; impacts of climate change and loss of physical and biological resources; achieving a sustainable future. Lecture 4 hours. No credit toward Biology major or minor.

GE Theme G**360 General Ecology (4)**

Prerequisite: BIOL 300. Relation of plants and animals to their environment and to each other; environmental complexes, ecological life histories, and relationships among individuals in populations and communities. Lecture 2 hours, laboratory and field work 6 hours.

375N Biology of Health Maintenance (4)*(Also listed as MICR 375N)*

Prerequisite: Completion of Block B1 of General Education Program. Biological aspects of the healthy state and major diseases that affect human populations. Current theories for maintaining the healthy state are emphasized.

380 Cell Biology (4)

Prerequisites: BIOL 103, CHEM 301A. Structure and function of the cell surface, membranes, organelles, and of the cytosol; control of information flow and of metabolism. Lecture 3 hours, laboratory 3 hours.

384N Biology of Human Aging (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Age-related changes in human physiology and anatomy at the molecular, cellular, and organismal levels; relationship of late-onset disease to the aging process. No credit toward Biology Major or Minor.

GE Theme F

388N Sex and Gender (4)**(also listed as PSY 388)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychological differences between the sexes; topics include genetics of sexual determination, sexual development and anomalies, hormones in physiology and behavior, measurement of gender, psychological differences in behavior. No credit toward Biology or minor.

GE Theme C**396 Honors Thesis (1–5)**

Prerequisites: Upper division standing, 40 units in the major, ENGL 102*, admission to Biology Honors Program. Independent research in biology; regular consultations with research adviser; written thesis required. Student must complete 5 units before submitting thesis and receiving grade.

*Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: BIOL 499 and all courses with the suffix N.

401 Microtechniques (4)

Prerequisites: CHEM 301A, upper division standing in a biological science major. Preparative and histochemical study of cells and tissues, including squash, sectioning, and staining methods. Lecture 1 hour, laboratory 9 hours.

402 Electron Microscopy (4)

Prerequisite: CHEM 301A, senior standing in a biological or physical science major, instructor consent. Theory of electron microscopy; practical experience in the preparation of biological and physical materials for examination and operation of transmission and scanning electron microscope. Lecture 1 hour, laboratory 9 hours.

408 Experimental Design and Advanced Biometry (4)

Prerequisite: BIOL 300. Experimental design in statistical procedures, advanced topics in analysis of variance, linear and nonlinear regression analysis, covariance; introduction to multivariate techniques used in biological research. Lecture 3 hours, laboratory 3 hours.

413 Molecular Diagnostics (4)

Prerequisites: BIOL 380 or MICR 401 or CHEM 431A and CHEM 431C (may be taken concurrently). Biological and technical aspects of molecular approaches to diagnosis of disease. Recommended for individuals considering careers in either clinical or research applications of biotechnology. Lecture 2 hours, laboratory 6 hours.

414 Cytogenetics (4)

Prerequisites: BIOL 340, 380. Physical basis of heredity in plants, animals, and humans; structure, number, and behavior of chromosomes in normal and abnormal conditions, karyotyping. Lecture 3 hours, laboratory 3 hours.

415 Population Genetics (4)

Prerequisite: BIOL 340. Forces that shape the genetic structure of populations; random genetic drift; mutation; natural selection; inbreeding; assortative mating; molecular evolution; quantitative genetics; ecological genetics. Lecture 3 hours, laboratory 3 hours.

416 Molecular Genetics (4)

Prerequisites: BIOL 340, CHEM 301A. Special topics concerning chemical nature of genes, their replication, and their mode of action at molecular level.

417 Gene Manipulation (4)

Prerequisites: BIOL 340 or MICR 340; BIOL 380 or CHEM 431AB and 432A. Genetic engineering and its application in molecular biology and biotechnology.

418 Evolution (4)

Prerequisite: BIOL 340. Genetic and ecological bases of evolutionary changes in animals and plants; microevolution, speciation, and macroevolution.

422 Vertebrate Structure and Function (5)

Prerequisite: BIOL 103 with grade of C or higher. Evolution of vertebrate structure and functional morphology; evolutionary adaptations of vertebrates presented in a phylogenetic text. Lecture 3 hours, laboratory 6 hours.

424 General Embryology (4)

Prerequisites: Grade of C or higher in BIOL 103; CHEM 301C. Molecular biology of genetic programming, cellular events of early embryogenesis, mechanisms of differentiation, and elements of organogenesis. Lecture 2 hours, laboratory 6 hours.

425 Plant Anatomy (4)

Prerequisite: Grade of C or higher in BIOL 103. Microscopic structure of vascular plants with emphasis on organization and functioning of meristems; structure, function, and differentiation of cells and tissues; development and comparative anatomy of stem, leaf, and root. Lecture 2 hours, laboratory 6 hours.

427 Fungi (4)

Prerequisite: Grade of C or higher in BIOL 103. Structure, development, physiology, and classification of fungi. Lecture 2 hours, laboratory 6 hours.

429 Animal Histology (5)

Prerequisite: Grade of C or higher in BIOL 103. Basic structural, chemical, and physiological aspects of tissues, recent advances in histological technology; traditional microscopic study of tissues and organs, primarily mammalian. Lecture 3 hours, laboratory 6 hours.

430 Plant Physiology I (4)

Prerequisites: Grade of C or higher in BIOL 103; CHEM 103. Growth and development, growth regulation, plant-water relations, mineral nutrition, photosynthesis and respiration. Lecture 2 hours, laboratory 6 hours.

431 Plant Physiology II (4)

Prerequisite: BIOL 430. Ecological physiology of plants: physiological adaptations to stress, seasonal environmental changes, aquatic and various terrestrial habitats. Lecture 4 hours.

433 Animal Physiology I (4)

Prerequisite: BIOL 380. Physiological phenomena at the organismic level. Muscular, nervous, endocrine, and reproductive systems; laboratory techniques and principles. Lecture 3 hours, laboratory 3 hours.

434 Animal Physiology II (4)

Prerequisite: BIOL 380. Physiological phenomena at organismic level; digestive, respiratory, excretory, and circulatory systems. Laboratory techniques and principles. Lecture 3 hours, laboratory 3 hours.

435 Neurobiology: Neuroanatomy (4)

Prerequisite: BIOL 380 or equivalent. Gross and Microscopic structure of the mammalian nervous system, organizational aspects, classical lesions and deficits.

436 Neurobiology: Neurophysiology (4)

Prerequisite: BIOL 380 or equivalent. Basic cellular physiology of the vertebrate nervous system.

437 Advanced Cell Physiology (4)

Prerequisite: BIOL 380. A topical course on cellular phenomena such as information flow, bioenergetics, control mechanisms, motility phenomena, and molecular behavior of reactive surfaces. Lecture 3 hours, laboratory 3 hours.

438 Comparative Physiology (4)

Prerequisite: BIOL 380. Physiological principles and adaptations to the environment, with special emphasis on invertebrates; laboratory work includes independent projects. Lecture 3 hours, laboratory 3 hours.

440 Taxonomy of Angiosperms (4)

Prerequisite: Grade of C or higher in BIOL 103. Identification, classification, and nomenclature of angiosperms; speciation and population structure. Lecture 2 hours, laboratory or field work 6 hours; weekend field trips may be required.

442 Marine Botany (4)

Prerequisite: Grade of C or higher in BIOL 103. Taxonomy, morphology, and ecology of marine plants, with emphasis on the seaweeds. Lecture 2 hours, laboratory 6 hours.

451 Ornithology (4)

Prerequisite: Grade of C or higher in BIOL 103. Taxonomy, distribution, physiology, life history, ecology, and behavior of birds. Lecture 2 hours, laboratory and field work 6 hours.

454L,P Special Topics in Biology (1–4)

Prerequisites: Upper division standing, others as needed for specific topic. Topics of current interest in biology as announced in *Schedule of Classes*. May be repeated to maximum of 16 units.

455 Mammalogy (4)

Prerequisite: Grade of C or higher in BIOL 103. Taxonomy, distribution, ecology, and physiology of mammals. Lecture 2 hours, laboratory and field work 6 hours.

457 Marine Invertebrate Zoology (5)

Prerequisite: Grade of C or higher in BIOL 103. Taxonomy, phylogeny, and natural history of major marine invertebrates taxa; laboratory work emphasizes species from local fauna and those of economic importance. Lecture 3 hours, laboratory 6 hours.

458 General Entomology (4)

Prerequisite: Grade of C or higher in BIOL 103. Anatomy, ecology, classification, and habits of insects, with emphasis on western species; techniques for capture, observation, and preservation of specimens. Lecture 2 hours, laboratory 6 hours.

462 Plant Ecology (4)

Prerequisite: BIOL 360. Plants and plant associations in relation to physical and biotic environments, including plant community structure, history, analysis, and developmental processes. Lecture 2 hours, laboratory and/or field work 6 hours.

464 Freshwater Zoology (4)

Prerequisites: BIOL 360; one year of chemistry. Physical, chemical, and geological characteristics of aquatic habitats; characteristics and natural history of common aquatic organisms; emphasis on animals. Lecture 2 hours, laboratory 6 hours.

465 Issues in Environmental Biology (4)

Prerequisites: BIOL 103, CHEM 103. A review of crucial issues in environmental biology.

470 Conservation Biology (4)

Prerequisite: BIOL 360. Biological diversity of animals and plants; genetics and ecology of small populations; protection and management of threatened species and communities. Lecture 3 hours, laboratory or field work 3 hours.

472 Marine Ecology (4)

Prerequisite: BIOL 360. Population and community ecology of major habitats in marine environment; lecture emphasizes contemporary theories in marine ecology; laboratory offers practical field experience. Lecture 3 hours, laboratory or field work 3 hours.

476 Physiological Animal Ecology (4)

Prerequisite: BIOL 380. Physiological responses of animals in various environments; emphasis on energetics and thermal relationships of animals. Lecture 3 hours, laboratory 3 hours.

485 Medical Parasitology (5)

Prerequisite: Grade of C or higher in BIOL 103. Synopsis of parasitic protozoa and helminths of humans; emphasis on recognition and control. Lecture 3 hours, laboratory 6 hours.

499 Undergraduate Directed Study (1–4)

Prerequisites: Consent of full-time faculty member in consultation with department chair, grade point average of 2.5 or higher. Project must be approved before registration. Student must have ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report. Graded CR/NC.

Courses in Microbiology (MICR)

Lower Division Courses

151 Biology of Microorganisms (4)

Inquiry-based course in microbiology designed for non-majors; content addresses the impact of microorganisms on the human experience and the biosphere; laboratory application of selected procedures. No credit if taken after any other college microbiology course. Lecture 3 hours, laboratory 3 hours.

GE B1

200AB General Microbiology (5, 3)

Prerequisites: BIOL 102 or 200B; CHEM 102 or 152. Basic principles of microbiology. Emphasizes nature, distribution, physiological activities of microorganisms; applied microbiology; medical aspects. For majors in microbiology and related subjects.

200A: lecture 3 hours, laboratory 6 hours.

200B: lecture 2 hours, laboratory 3 hours.

201 Microbiology for Health Related Sciences (4)

Prerequisites: BIOL 102 or 200B; CHEM 102 or 152. Basic function and structure of microorganisms; host-parasite relationships, infectious diseases, immunology and serology, epidemiology, antimicrobial agents, and chemotherapy. Lecture 4 hours.

202 Microbiology Laboratory for Health Related Sciences (2)

Corequisite: MICR 201. Laboratory methods used in studying microorganisms; aseptic techniques, environmental influences on microorganisms, microbial interrelationships; water microbiology and sanitation; immunology and infectious disease diagnosis. Laboratory 6 hours.

Upper Division Courses**300 Seminar: Overview of Clinical Laboratory Professions (1)**

Prerequisites: MICR 200B and upper division standing. Medical ethics, tort law, and related careers and technologies in clinical laboratory science. Graded CR/NC.

301 General Medical Microbiology (4)

Prerequisite: MICR 200AB with grades of C or higher. Host-parasite-drug interactions; isolation, culture, and identification of human normal flora. Lecture 2 hours, laboratory 6 hours.

302 Pathogenic Bacteriology (5)

Prerequisite: MICR 301 with grade of C or higher. Bacteriology and pathology of infectious bacterial diseases of humans; diagnostic procedures for identification of major pathogens. Lecture 3 hours, laboratory 6 hours.

304 Immunology and Serology (5)

Prerequisites: MICR 302, CHEM 301A, 302A, each with a grade of C or higher. Immune response, cellular and humoral, induction of immunity, detection of antibodies, principal serologic methods evaluation of immune response; three sections: fundamental immunology, serology, and clinical immunology. Lecture 3 hours, laboratory 6 hours.

331 Structure and Function of Bacteria (3)

Prerequisites: MICR 200AB; CHEM 301A; prerequisite or corequisite: 302A. Function of bacteria, emphasis on structure and growth.

340 Microbial Genetics (3)

Prerequisite: Grade of C or higher in MICR 200A. Principles of microbial genetics with emphasis on genetic exchange, genetic manipulation, and applications with environmentally, industrially, and medically significant organisms.

363 Microbiological Detectives (4)

Prerequisite: GE natural science requirement. The creative process in microbiology past and present. Individual microbiological detectives and their discoveries, both experimental and theoretical; current inquiry into the nature of involvement of microorganisms in the human experience.

**375N Biology of Health Maintenance (4)
(Also listed as BIOL 375N)**

Prerequisite: Completion of Block B1 of General Education Program. Biological aspects of the healthy state and major diseases that affect human populations. Current theories for maintaining the healthy state are emphasized.

401 General Virology (3)

Prerequisite: MICR 340 or BIOL 340 plus 380. Basic principles of virology; emphasizes properties, classification, multiplication, genetics, and viral-host interactions of bacterial, animal, and plant viruses.

403 Pathogenic Fungi (3)

Prerequisite: MICR 301. Morphology, physiology, and principles of pathogenicity of fungi that cause disease in humans and animals. Lecture 2 hours, laboratory 3 hours.

410 Hematology (4)

Prerequisites: MICR 301; CHEM 431A. CHEM 431A may be taken concurrently. Normal hematopoiesis and hemostasis and how defects in the normal processes affect the blood, anemias, leukemias, coagulation, and other hematologic or nonhematologic disorders. Lecture 3 hours, laboratory 3 hours.

**412 Introduction to Epidemiology (4)
(also listed as HS 412)**

Prerequisites: MICR 200AB or 201 and 202. Study of disease and injury in human population, including general review of epidemiologic methods. Focus on complex relationship between workers and work environment.

420 Immunohematology (3)

Prerequisites: MICR 304, 410. Grouping of red blood cells with applications in clinical forensic medicine; emphasis on basic blood group systems and associated diseases. Practical application of identification of various blood group antigens and antibodies. Lecture 2 hours, laboratory 3 hours.

430 Bacterial Physiology (3)

Prerequisites: MICR 331; CHEM 431A, 432A; corequisites: CHEM 431B, 432B. Bacterial physiology with emphasis on biochemical events related to cellular differentiation and basic bacterial biochemical pathways.

433 Bacterial Physiology Laboratory (2)

Corequisite: MICR 430. Experimental work to accompany MICR 430. Laboratory 6 hours.

454L Special Topics in Microbiology (1–4 each)

Prerequisites: Upper division standing, others as needed for specific topics. Topics of current interest in microbiology, as announced in *Schedule of Classes*. May be repeated to maximum of 8 units.

499 Undergraduate Directed Study (1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and a final report submitted. May be repeated for credit.

Graduate Level Courses (BIOL)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: BIOL 499 and all courses with the suffix N.

Classified graduate standing is required for admission to all 500 level courses..

501 Seminar: Development of Biological Concepts (3)

Impact of great concepts in biological science on human thought and activities and on present day understanding. *May be repeated once for credit as subject matter changes.*

503 Seminar: Special Topics in Microbiology (3)

Prerequisite: Instructor consent. Special topics of current interest in microbiology as announced in *Schedule of Classes*. *May be repeated, as subject matter changes, to maximum of 9 units.*

510 Seminar: Biology (1)

Attendance at regular departmental seminar program: participation in seminar training program with course instructor; presentation of a departmental seminar. Graded CR/NC.

515 Seminar: Genetics (3)

Prerequisite: BIOL 340. Recent developments in various fields of genetics. *May be repeated once for credit as subject matter changes.*

516 Microbial Genetics (3)

Prerequisites: MICR 200AB; BIOL 340. Concepts of microbial genetics, including dissociation, transformation, transduction, gene transfer, and biochemical mutation; laboratory techniques, practical aspects such as antibiotic resistance. Lecture 3 hours.

517 Seminar: Gene Manipulation (3)

Prerequisites: BIOL 417; instructor consent. Critical evaluation and communication of recent literature in molecular biology. *May be repeated to maximum of 6 units.*

519 Genetic Engineering Laboratory (8)

Prerequisites: BIOL 417; BIOL 380 or MICR 200AB; CHEM 431ABC; instructor consent. Introduction to basic techniques. Lecture 2 hours, laboratory 18 hours.

520 Advanced Immunology (3)

Prerequisite: Consent of graduate adviser. Advanced principles and concepts of immunology, fundamental biological significance of the immune reaction.

522 Seminar: Morphology (3)

Advanced studies in animal or plant morphology, with emphasis on evolutionary and environmental adaptations. *May be repeated to maximum of 6 units as topic changes.*

525 Seminar: Developmental Biology (3)

Prerequisites: BIOL 380, instructor consent. Discussion of recent advances in the field of plant and/or animal embryonic and postembryonic development. *May be repeated to maximum of 6 units as topic changes.*

530 Advanced Microbial Physiology (3)

Prerequisite: Consent of graduate adviser. Biochemical aspects of microbial physiology and metabolism, with special emphasis on recent advances in field.

534 Seminar: Systems Physiology (3)

Prerequisite: BIOL 380. Advanced study in various areas of systems physiology. *May be repeated to maximum of 6 units as subject matter changes.*

537 Seminar: Endocrinology (3)

Prerequisite: BIOL 437. Discussion of current topics and trends in endocrine physiology. *May be repeated to maximum of 6 units as subject matter changes.*

538 Seminar: Environmental Physiology (3)

A course in animal or plant physiology. Mechanism and specialization of animals or plants as related to their environment. *May be repeated once for credit as subject matter changes.*

539 Seminar: Cell Biology (3)

Prerequisites: BIOL 380, CHEM 431C. Major cell functions considered primarily from standpoint of causative and control mechanisms. *May be repeated once for credit as subject matter changes.*

540 Seminar: Biological Systematics (3)

Prerequisites: A course in genetics, statistics, and either a botany or zoology systematics course. Fundamental concepts and problems in definition and recognition of species and higher taxa, and the special experimental or biometric techniques used. *May be repeated to maximum of 6 units as subject matter changes.*

560 Topics in Animal Ecology (4)

Prerequisite: BIOL 360. Advanced studies in ecological relationships of animals; class, field and/or laboratory research projects involving data gathering, analysis and synthesis. *May be repeated once for credit. Lecture 2 hours, laboratory/field work 6 hours.*

562 Advanced Topics in Plant Ecology (3)

Prerequisite: BIOL 462. Analysis of selected plant communities to determine structure, pattern, and interrelationships; discussion of current theories, problems, and methods of vegetational sampling, analysis, and synthesis. Lecture 2 hours, laboratory and/or field work 3 hours.

563 Seminar: Ecology (3)

Prerequisite: BIOL 360. Recent advances and current research in ecology. *May be repeated once for credit.*

575 Seminar: Animal Behavior (3)

Prerequisite: BIOL 475 or PSY 408. Current topics in animal behavior, with emphasis on origin and ecological significance of behavioral patterns. *May be repeated for credit to maximum of 6 units as subject matter changes.*

580 Seminar: Microbiology (1)

Attendance at departmental seminar program; participation in seminar training; presentation of a satisfactory departmental seminar. *Must be repeated to maximum of 3 units. Graded CR/NC.*

595 Individual Research in Gene Manipulation (4)

Prerequisites: BIOL 517, 519. Laboratory research project conducted in approved on- or off-campus laboratory. Graded CR/NC.

597 Graduate Research (1-6)

Approval of program committee. Conducting research toward master's degree. *May be repeated to maximum of 6 units. Graded CR/NC.*

599 Thesis (1-9)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in thesis. *May be repeated to maximum of 9 units. Graded CR/NC.*

Department of

Chemistry and Biochemistry

School of Natural and Social Sciences

DEPARTMENT OFFICE

Physical Sciences 616

Phone: (323) 343-2300

E-mail: chmbioc@calstatela.eduWebsite: <http://chemistry.calstatela.edu>

Consult the departmental web page at <http://chemistry.calstatela.edu/> for the email addresses and telephone numbers of the current department chair, undergraduate adviser and graduate adviser.

Undergraduate Studies Chemistry and biochemistry provide understanding of molecular structure and reactivity and thus are central for the study of physical and biological phenomena. The Department of Chemistry and Biochemistry offers three undergraduate degrees: the Bachelor of Science degree in Chemistry, the Bachelor of Science degree in Biochemistry and the Bachelor of Arts degree in Chemistry. In addition, the department participates in the B.S. in Natural Sciences degree program through its Chemistry Option.

Students who earn the B.S. degree in chemistry or biochemistry are prepared to enter careers in chemical, material science, pharmaceutical, biochemical and molecular life sciences industries: careers in government and academic laboratories; and to pursue advanced education in graduate and professional schools. The B.A. in Chemistry provides a liberal education with a major in chemistry and is designed to suit the needs of those who plan to go into non-laboratory careers where a chemistry background is useful. Students pursuing a B.S. degree in Biochemistry or a B.A. degree in Chemistry may qualify for entrance into health professional schools such as medical, dental, pharmacy, etc. by selecting appropriate elective courses within their program while those students pursuing a B.S. degree in Chemistry may qualify for entrance into these professional schools by taking several additional courses. The Chemistry Option in the B.S. in Natural Science is designed for students who plan to be high school Chemistry teachers.

Undergraduates in all of these degree programs are encouraged to broaden their educational experience by participating in a research project under the direction of one of the department's faculty members. The department has a strong tradition of involving undergraduates in research and these students are often provided financial support through research grants

Graduate Studies The Master of Science degree programs prepare students for supervisory positions in industry, teaching positions in community colleges, or more advanced study toward the Ph.D. degree in chemistry, biochemistry, or in the molecular life sciences. The M.S. Chemistry degree program includes three options: the thesis option, the Biochemistry option and the comprehensive examination option. The thesis option and the Biochemistry option provide extensive research training, and are recommended for those students who wish to pursue a career as a laboratory scientist or continue their education in a doctoral program. The comprehensive examination option is intended for persons in industry or government who need to develop a more current understanding of chemistry and for other specific areas of chemical application in which an advanced degree is beneficial. The comprehensive examination option is not recommended for students who wish to continue to a doctoral program in chemistry, nor for those who intend to upgrade their laboratory research capabilities significantly.

The Faculty

Professors: Joseph Bragin, Costello L. Brown, Anthony Fratiello, Raymond E. Garcia, Harold Goldwhite, Scott D. Grover, Carlos G. Gutierrez, Donald R. Paulson, Wayne R. Tikkanen (*Chair*)

Associate Professors: Frank A. Gomez, Linda M. Tunstad

Assistant Professors: Jamil Momand, Scott L. Nickolaisen, Matthias Selke, Robert L. Vellanoweth, Feimeng Zhou

Emeriti: Joseph Casanova, Jr., Douglas L. Currell, Phoebe K. Dea, Lloyd N. Ferguson, Sigmund Jaffe, Richard T. Keys, Hendrik Keyzer, Anthony Moye, Thomas P. Onak, Stanley H. Pine, Rashad E. Razouk

Undergraduate Programs

Undergraduate Degrees

Students who expect to earn a bachelor's degree in Chemistry in the minimum time should include chemistry, physics, geometry, trigonometry, and algebra (two years) in their high school preparation.

It should also be noted that the chemistry programs are tightly structured and that students should begin calculus and physics sequences at the earliest possible time in order to complete the degree in four years.

For Chemistry and Biochemistry majors, only courses with a grade of C- or higher in the major program are credited toward the degree. Successful completion of the major requires a minimum C (2.0) overall grade point average in required courses and a minimum C (2.0) grade point average in upper division required courses and electives. Students who have taken community college organic chemistry have the option of earning credit by examination in CHEM 301A, 301B, and/or 301C.

Departmental Honors Program

A departmental honors program in Chemistry is offered for students who possess a minimum *B* (3.0) grade point average in all college work and in chemistry, averaged separately, and who are recommended in writing by two members of the faculty.

The program is designed to encourage independent study and to provide an introduction to research. The traditional curriculum is enriched by the selection of electives that provide depth in areas outside the field of chemistry.

Honor students are assisted by an honors adviser in planning their programs. Enrollment in CHEM 196 and 396 and a written thesis are required parts of the program. Diplomas and transcripts of honors program graduates are designated: "Graduated with Departmental Honors in Chemistry."

Bachelor of Arts Degree in Chemistry

The Bachelor of Arts degree, which requires 186 units, is designed for those who want a liberal education with a major in Chemistry. This degree allows students to include a minor in another science, business, economics, or humanities within their degree program. The degree is suitable for students planning careers in government or industry where a physical science background is desirable. It is also appropriate for some preprofessional health science majors but is not recommended for students planning graduate study in a physical science. Students should note that this degree fulfills only 35 of the 60 upper division units required by the University so that students must take 13 more upper division units as well as the 12 required by the upper division GE Theme.

Requirements for the Major (79 units)

Lower Division Required Courses (44 units)

CHEM 101-103	General Chemistry I-III (5,5,5)
CHEM 201	Quantitative Analysis (5)
MATH 206-208	Calculus I-III (4,4,4)
PHYS 201-203	General Physics (4,4,4) or
PHYS 101-103	Physics (4,4,4)

Upper Division Required Courses (28 units)

CHEM 301ABC	Organic Chemistry (3,3,3)
CHEM 302AB	Organic Chemistry Laboratory (2,2)
CHEM 360	Writing for Chemists (3)
CHEM 411	Fundamentals of Physical Chemistry (4)
CHEM 435	Introduction to Biochemistry (4)
CHEM 463	Biomedical Microanalysis (4)

Electives in Chemistry (7 units)

May include a maximum of 3 units of CHEM 499.

Bachelor of Science Degree in Biochemistry

The Bachelor of Science degree in Biochemistry is designed to fit the needs of those who plan to complete their formal education with the bachelor's degree and obtain positions in scientific and industrial laboratories, attend health professional schools, or do graduate study in biochemistry.

Requirements for the Major (123 units)

Lower Division Required Courses (70 units)

CHEM 101-103	General Chemistry I-III (5,5,5)
CHEM 201	Quantitative Analysis (5)
BIOL 101, 102	Principles of Biology I, II (5, 5)
MATH 206-209	Calculus I-IV (4,4,4,4)
MICR 200AB	General Microbiology (5, 3)
PHYS 201-204	General Physics (4,4,4,4)

Upper Division Required Courses (42 units)

CHEM 301ABC	Organic Chemistry (3, 3, 3)
CHEM 302AB	Organic Chemistry Laboratory (2, 2)
CHEM 360	Writing for Chemists (3)
CHEM 401	Physical Chemistry I (4)
CHEM 402 or 403	Physical Chemistry II or III (4)
CHEM 431ABC	Biochemistry (3, 3, 3)
CHEM 432AB	Biochemistry Laboratory (2, 2)
PHYS 443AB	Biophysics (3, 2)

Electives in Biology (11 units)

Select 11 units with adviser approval.

Bachelor of Science Degree in Chemistry

The Bachelor of Science degree in Chemistry is accredited by the American Chemical Society. It is designed to fit the needs of those who either plan to complete their formal education with the bachelor's degree and obtain positions in scientific or industrial laboratories or do graduate study in chemistry.

Requirements for the Major (119-121 units)

Lower Division Required Courses (62-64 units)

CHEM 101-103	General Chemistry I-III (5,5,5)
CHEM 201	Quantitative Analysis (5)
CHEM 170	Microcomputers in Chemistry (2) or
CS 290	Introduction to FORTRAN Programming (2)
or	
MATH 255	Introduction to Matrix Theory (4)
MATH 206-209	Calculus I-IV (4,4,4,4)
MATH 215	Differential Equations (4) or
**MATH 401	Differential Equations (4)
PHYS 201-205	General Physics (4,4,4,4,4)
<i>**Upper division credit.</i>	

Upper Division Required Courses (51 units)

CHEM 301ABC	Organic Chemistry (3, 3, 3)
CHEM 302AB	Organic Chemistry Laboratory (2, 2)
PHYS 306	Modern Physics (3)
CHEM 318	Introduction to Inorganic Chemistry (3)
CHEM 327	Advanced Synthetic Methods (2)
CHEM 360	Writing for Chemists (3)
CHEM 401-403	Physical Chemistry I-III (4, 4, 4)
CHEM 412AB	Physical Chemistry Laboratory (3, 3)
CHEM 418	Inorganic Chemistry (3)
CHEM 462	Instrumental Analysis (6)

Electives in Chemistry

Select 6 units with adviser approval. May include a maximum of 3 units of CHEM 499.

The Credential Program

The Department of Chemistry and Biochemistry participates in the interdisciplinary Bachelor of Science degree program in Natural Science, which has been approved for the Single Subject credential in Science. The Chemistry Option in this program is described in the section of the catalog dealing with the Natural Science degree. In addition, holders of a Single Subject credential issued by the state of California may complete the supplementary authorization program described below.

Supplementary Authorization for Single Subject Teaching Credential (31–33 units)

Holders of a Single Subject teaching credential issued by the state of California may supplement that credential with an authorization in Chemistry for teaching chemistry at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with a grade of C or higher in each course. The course work must include one year sequence of courses in at least two of the subject areas. At least one of the courses must include a laboratory component. For other requirements governing issuance of this authorization, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (31–33 units)

CHEM 101–103 General Chemistry I–III (5, 5, 5)
 CHEM 201 Quantitative Analysis (5)
 CHEM 301ABC Organic Chemistry (3, 3, 3)

Select one from the following:

CHEM 302A Organic Chemistry Laboratory (2)
 CHEM 318 Introduction to Inorganic Chemistry (3)
 CHEM 435 Introduction to Biochemistry (4)

Graduate and Postbaccalaureate Programs.

Master of Science Degree in Chemistry

Admission to the Program

Admission to the program requires a baccalaureate in chemistry or biochemistry from an accredited college or university or a baccalaureate in a related field with a strong background in chemistry. Applicants interested in the biochemistry option should have a preparation equivalent to that required for the Cal State L.A. baccalaureate in biochemistry, which includes, among other requirements, 10 units of introductory biology, 8 units of microbiology, and 11 units of upper division biology.

All applicants are required to have a 2.5 grade point average in their last 90 quarter units. Applications for any quarter must be submitted early in the previous quarter. Students must apply to both the department and the University.

Placement Examinations

All new graduate students must take a placement examination administered by the Department of Chemistry and Biochemistry at first registration. The examination covers physical, analytical, inorganic, and organic chemistry. For those specializing in biochemistry, examinations in biochemistry and biology replace those in analytical and inorganic chemistry. The time and place are announced by the department.

Students entering the program must take all placement examinations appropriate to their area. If students do not take an examination, it is presumed that they are not proficient in the particular area, and are then required to take the complete undergraduate sequence for that area as corequisite or qualifying courses. Students who do not take or do not pass an area examination may, upon approval by the principal graduate adviser, be allowed a second opportunity to take it the next time it is given.

Requirements for the Degree (46 units)

A total of 46 units is required for the degree. Both the thesis option program in chemistry and the option in biochemistry consist of required courses, electives, research (597) and thesis (599), with a minimum of 27 units in 500-level courses, including 597 and 599. Of the remaining 19 units, students must take eight outside their area of specialization in chemistry.

The comprehensive examination option in chemistry consists of required courses, including advanced laboratory courses and elective courses, with a minimum of 23 units in 500-level courses. *Students must comply with school and departmental requirements.*

Each student's program is designed with the assistance of a faculty adviser and the student's advisory committee.

Additional Requirements

Thesis option candidates must meet the following requirements:

- Submit a thesis, which must be approved by the Department of Chemistry and Biochemistry as a part of the program.
- Pass a final oral examination, primarily about the thesis, administered by the department.

Comprehensive examination option candidates must pass written comprehensive examinations on the subjects of the required courses.

Students in the biochemistry option will not receive graduate credit for CHEM 431ABC or 432AB and will be allowed 14 units of electives outside the field of chemistry.

Students must select the required courses for chemistry, or for the biochemistry option, as appropriate; however, students who have previously completed the equivalent of any of these courses will not be required to repeat them.

Thesis Option (46 units)

Required Courses (16 units)

CHEM 420 Advanced Organic Chemistry (4)
 CHEM 500 Presentation in the Chemical and Biochemical Sciences (1)
 CHEM 501 Quantum Chemistry (4)
 CHEM 504 Advanced Inorganic Chemistry (4)
 CHEM 580 Graduate Seminar: Chemistry (1, 1, 1)

Electives (18–20 units)

Select 18–20 units in chemistry from the following with adviser approval; include enough 500-level courses to meet department minimum of 27 units:

CHEM 425, 431ABC, 432AB, 438, 440, 454L, P, 480, 503, 505, 590, 598.

Of the 18–20 elective units, a maximum of 9 may be outside the field of chemistry with adviser approval.

Research and Thesis (10–12 units)

CHEM 597 Graduate Research (6–8) and
 CHEM 599 Thesis (4)

Comprehensive Examination Option (46 units)

Required Courses (29–31 units)

CHEM 420 Advanced Organic Chemistry (4)
CHEM 500 Presentation in the Chemical and Biochemical Sciences (1)

CHEM 504 Advanced Inorganic Chemistry (4)
CHEM 580 Graduate Seminar: Chemistry (1, 1, 1)

Select one of following pairs:

CHEM 431ABC Biochemistry (3, 3, 3) plus
CHEM 501 Quantum Chemistry (4) or
CHEM 503 Advanced Biochemistry (3, 3, 3) plus
*CHEM 590 Advanced Laboratory (4)

Select 4–6 units of advanced laboratory courses, with adviser approval, from following:

CHEM 462 Instrumental Analysis (6)
*CHEM 590 Advanced Laboratory (1–4)
CHEM 597 Graduate Research (1–6)
*Maximum 4 units applicable to program

Electives (15–17 units)

Select 15–17 units in chemistry from the following with adviser approval; include enough 500-level courses to meet department minimum of 27 units:

CHEM 425, 432AB, 438, 440, 454L, P, 480, 503, 505, 590, 598.

Of the 15–17 elective units, a maximum of 9 may be outside chemistry with adviser approval.

Comprehensive Examination (0 units)

CHEM 596 Comprehensive Examination (0)

Students who select the comprehensive examination (CHEM 596) should expect to take it the quarter they complete all course work on their program and must comply with school and departmental requirements.

Biochemistry Option (46 units)

Required Courses (13 units)

CHEM 500 Presentation in the Chemical and Biochemical Sciences (1)

CHEM 503 Advanced Biochemistry (3, 3, 3)
CHEM 580 Graduate Seminar in Chemistry (1, 1, 1)

Electives (7–23 units)

Select from the following with adviser approval; include sufficient 500-level courses to meet department minimum of 23 units:

CHEM 418, 420, 425, 438, 440, 454L, P, 462, 480, 501, 504, 505, 590, 598.

Additional electives (0–14 units)

Select an additional 0–14 units outside chemistry with adviser approval.

Research and Thesis (10–12 units)

CHEM 597 Graduate Research (6–8) and
CHEM 599 Thesis (4)

Certificate Program in Industrial Chemistry

The Department of Chemistry and Biochemistry offers a credit certificate program in Industrial Chemistry for postbaccalaureate and graduate students. This program is designed to develop skills in instrumental analysis by providing a broad range of experience with instrumental methods and modern techniques to complement students' theoretical preparation in chemistry. The program is intended to enhance the ability of advanced students to function effectively in industrial and government laboratory positions in chemistry.

The program requires completion of a total of 16 units of 400 and 500-level course work with a 3.0 grade point average. Some courses taken to meet requirements of this program may also be applied toward the master's degree program in chemistry. A bachelor's degree in chemistry is required for admission to the program. Refer to the *Graduate and Postbaccalaureate Study* chapter of this catalog for general regulations governing all graduate level certificate programs.

Requirements for the Certificate (16 units)

Required Courses (16 units)

CHEM 425 Polymer Chemistry (4)
CHEM 440 Industrial Chemistry (4)
CHEM 498 Cooperative Education (2)
CHEM 580 Graduate Seminar: Chemistry (2)
CHEM 590 Advanced Laboratory (4)

Students may substitute other appropriate courses with adviser approval.

List of Courses (CHEM) - Undergraduate Level

† There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the Schedule of Classes.

Subcollegiate Course

095 Language of Chemistry (4)

Prerequisite: One year of high school algebra. Development of basic skills for further training in chemistry; introduction to stoichiometry; meaning of chemical equations and their algebraic interpretation; physical background of fundamental chemical concepts. Not acceptable as prerequisite for CHEM 102 or 152. Lecture 3 hours, recitation 1 hour. Graded A,B,C/NC. No credit toward baccalaureate.

A grade of C or higher is required in all prerequisite courses.

Lower Division Courses

†101 General Chemistry I (5)

Prerequisite: High school chemistry and physics; two years of high school algebra; satisfactory performance on mathematics placement examination given during registration period. Physical concepts, stoichiometry, structure of atom, periodic table, chemical bonding. Lecture 3 hours, recitation 1 hour, laboratory 3 hours.

CHEM 101+102+103 = CAN CHEM SEQ A

†102 General Chemistry II (5)

Prerequisite: CHEM 101. Structure of molecules, states of matter, acids and bases, equilibrium, oxidation-reduction, electrochemistry, coordination compounds. Lecture 3 hours, recitation 1 hour, laboratory 3 hours.

CHEM 101+102+103 = CAN CHEM SEQ A

†103 General Chemistry III (5)

Prerequisite: CHEM 102. Introduction to science of thermodynamics and its applications in chemistry, chemical kinetics, spectroscopy and special topics in general chemistry. Lecture 3 hours, recitation 1 hour, laboratory 3 hours.

CHEM 101+102+103 = CAN CHEM SEQ A

140 Science Orientation (2)

(also listed as BIOL 140)

Prerequisite: Instructor consent. Exploration of skills essential for success in the sciences; presentations by professional scientists. *No credit toward science major or minor.* Graded CR/NC.

†151 Fundamentals of Chemistry I (5)

Prerequisites: One year of high school algebra, satisfactory performance on mathematics placement examination given during registration period. Introductory course in fundamental laws and theories of general chemistry. Lecture 3 hours, recitation 1 hour, laboratory 3 hours. *No credit toward Chemistry or Physics major.*

†152 Fundamentals of Chemistry II (Organic) (5)

Prerequisite: CHEM 151. Introduction to organic chemistry. Lecture 3 hours, recitation 1 hour, laboratory 3 hours. *No credit toward Chemistry or Physics major.*

†154L,P Selected Topics in Chemistry (1-4)

Topics of current interest as announced in *Schedule of Classes*. *No credit toward Chemistry or Biochemistry major.*

155 Introductory Chemistry (4)

Prerequisite: 1 year high school chemistry. Chemistry 155 will present fundamentals of chemistry and quantitative thinking. Topics include the molecular nature of matter, scientific method, measurement, stoichiometry and gas laws. Lecture 2 hours, recitation, 1 hour, activity 2 hours. Graded A,B,C/NC.

158 The Chemistry of Everyday Things (4)

An Introductory course in chemistry emphasizing the chemistry of importance to everyday life including the environment, energy, food and materials. **GE B2**

†159 The Chemistry of Everyday Things Laboratory (1)

Corequisite: CHEM 158. An Introductory chemistry laboratory course emphasizing the chemistry of familiar materials. **GE B2**

160 Maladies and Molecules (4)

Selected aspects of the chemical foundations, molecular transmission, and palliation of infectious, inheritable, and environmental diseases at an introductory level requiring no initial knowledge of chemistry.

170 Microcomputers in Chemistry (2)

Prerequisite or corequisite: CHEM 102. Use of microcomputer as productivity and computational tool in chemistry and biochemistry; emphasis on application of existing software to chemical/biochemical problems.

196 Honors Proseminar (1)

Prerequisite: Acceptance into department honors program. Study of recent developments in chemistry and biochemistry. May be repeated to maximum of 6 units; only 1 unit may apply on major requirements. Graded CR/NC.

†201 Quantitative Analysis (5)

Prerequisite: CHEM 103. Principles and techniques of analytical chemistry, including stoichiometry, equilibrium (pH and redox), electrochemistry, spectroscopy, and separations. Lecture 3 hours, laboratory 6 hours.

254L,P Special Topics in Chemistry (1-4)

Prerequisites: As needed for specific topic. Current topics of interest in chemistry and related disciplines, as announced in *Schedule of Classes*. May be repeated to maximum of 8 units.

Upper Division Courses**301ABC Organic Chemistry (3, 3, 3)**

Prerequisite: For CHEM 301A, CHEM 201 (may be taken concurrently with 301A). For 301B, CHEM 301A; for 301C, CHEM 301B. Corequisite: for 301B, CHEM 302A; for 301C, CHEM 302B. Properties and reactions of aliphatic and aromatic compounds; emphasis on fundamental principles and reaction mechanisms.

†302AB Organic Chemistry Laboratory (2, 2)

Prerequisite: CHEM 201.

302A Corequisite: CHEM 301B. Fundamentals of organic laboratory analysis, with emphasis on spectroscopic methods. Recitation-laboratory 6 hours.

302B Corequisite: CHEM 301C. Fundamental laboratory techniques of organic chemistry and organic synthesis. Recitation-laboratory 6 hours.

316 Scientific Glass Blowing (2)

Introductory course in glass blowing, including hands-on fabrication and repair of apparatus, theory and science of glass, and principles of laboratory techniques. Credit allowed for the B.A. chemistry program only.

318 Introduction to Inorganic Chemistry (3)

Prerequisite: CHEM 201. Introduction to the study of the elements; atomic structure, bonding, ionic solids, solutions, and nonmetals.

†327 Advanced Synthetic Methods (2)

Prerequisites: CHEM 301C, 302B, 318. Application of advanced synthetic methods to the synthesis of selected organic, organometallic, and inorganic molecules. Recitation-laboratory 6 hours.

†353 Nutritional Aspects of Biochemistry (5)

Prerequisite: CHEM 152. Introduction to biochemistry with particular emphasis on nutrition and its effect on metabolism. Lecture 3 hours, laboratory 3 hours, recitation 1 hour.

354L,P Special Topics in Chemistry (1-5)

Prerequisites: As needed for specific topic. Current topics of special interest in chemistry and related disciplines as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

355N Scientific Perspectives on Global Change (4)

(also listed as BIOL 355N and GEOL 355)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Natural and Human-Induced origins of global change; alteration of earth's natural cycles; impacts of climate change and loss of physical and biological resources; achieving a sustainable future. Lecture 4 hours.

360 Writing for Chemists (3)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); CHEM 201. Introduction to writing for chemists and biochemists. Intensive practice in writing abstracts, reports, reviews, and other forms of scientific writing.

380N Ancient and Modern Science (4)
(also listed as PHIL 380 and HIST 380)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient scientific thought as science and its relationship to modern science.

396 Honors Studies in Chemistry (1–5)

Prerequisites: Participation in Chemistry Honors Program, CHEM 301ABC, consent of an instructor to serve as research adviser, and approval of department honors adviser. Independent research in chemistry and biochemistry. Regular consultation with research adviser; written thesis required. Students must enroll for total of 5 units before submitting thesis and receiving grade.

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Chemistry, M.S. (Thesis option):

CHEM 401, 402, 403, 412AB, 418**, 462**, 499

Chemistry, M.S. (comprehensive examination option):

CHEM 401, 402, 403, 412AB, 418**, 499

Chemistry, M.S. (Biochemistry option):

CHEM 401, 431ABC, 432AB, 499

**Student may petition to waive the rule regarding this course.

401 Physical Chemistry I (4)

Prerequisites: CHEM 201; MATH 209; PHYS 204. Kinetic theory of gases, thermodynamics, and chemical statistics.

402 Physical Chemistry II (4)

Prerequisite: CHEM 401. Thermodynamics of solutions of nonelectrolytes and electrolytes, phase equilibria, chemical kinetics, surface chemistry, and macromolecules.

403 Physical Chemistry III (4)

Prerequisites: MATH 215 or 401; PHYS 306 recommended (may be taken concurrently). Molecular structure and spectroscopy. Fundamentals of quantum chemistry; applications to the chemical bond, spectroscopy, and the solid state.

411 Fundamentals of Physical Chemistry (4)

Prerequisites: CHEM 201; MATH 208; PHYS 103 or 203. Survey of physical chemistry including thermodynamics, kinetics, quantum chemistry, and spectroscopy. *No credit toward B.S. degree in Chemistry or Biochemistry; no credit if taken after successful completion of CHEM 401.*

†412AB Physical Chemistry Laboratory (3, 3)

Prerequisite: CHEM 401 or 403. Experiments to illustrate principles and techniques of various subjects of physical chemistry. Lecture 1 hour, laboratory 6 hours.

418 Inorganic Chemistry (3)

Prerequisites: CHEM 318, 402. Selected topics in inorganic chemistry, including physical inorganic chemistry, coordination chemistry, and inorganic polymers.

420 Advanced Organic Chemistry I (4)

Prerequisites: CHEM 301C, 401 or 403. Theoretical aspects of organic chemistry emphasizing reaction mechanisms.

425 Polymer Chemistry (4)

Prerequisites: CHEM 301C; MATH 209. Suggested corequisite: CHEM 401. Preparation, mechanisms, and properties of synthetic macromolecules; step and chain polymerization, copolymerization, kinetics, morphology and physical characterization of polymers.

431ABC Biochemistry (3, 3, 3)

Prerequisites: for 431A, CHEM 301C, 302A; Physics majors in the Biophysics option admitted by special permission; for 431B, CHEM 431A; for 431C, CHEM 431B. Corequisite for 431B, CHEM 432A. Lectures on chemistry and metabolism of carbohydrates, proteins, lipids, vitamins, hormones, and related phenomena in animals, plants, and microorganisms.

†432AB Biochemistry Laboratory (2, 2)

Prerequisite: 431A. Corequisite for 432A: CHEM 431B. Recitation and laboratory experiments designed to illustrate chemical behavior of substances of biochemical importance. Recitation-laboratory 6 hours.

435 Introduction to Biochemistry (4)

Prerequisite: CHEM 301C. Introduction to principles of biochemistry. No credit if taken after CHEM 431A.

438 Bioinorganic Chemistry (4)

Prerequisites: CHEM 301C and 318 or 431A. The role of metal ions in biological processes with an emphasis on the structure, function, and mechanism of metalloenzymes.

440 Industrial Chemistry (4)

Prerequisites: CHEM 301C, 402. Survey of major industrial chemical processes.

454L,P Special Topics in Advanced Chemistry (1–4)

Prerequisites: As needed for specific topic. Current topics of special interest in advanced chemistry and related disciplines, as announced in *Schedule of Classes*. May be repeated to maximum of 8 units.

†462 Instrumental Analysis (6)

Prerequisite: CHEM 402. Theories, applications, and recent technological developments of chemical instrumentation with emphasis on electrochemical, spectral, chromatographic, and magnetic resonance methods. Lecture 3 hours, laboratory 9 hours.

†463 Biomedical Microanalysis (4)

Prerequisite: CHEM 431B or 435. Theory and practice of instrumental methods for analysis of substances and processes of biomedical importance. Lecture 3 hours, laboratory 3 hours. *No credit toward B.S. degree in Chemistry or Biochemistry.*

480 History of Chemistry (4)

Prerequisites: CHEM 103, 301C. Development of chemical knowledge from chemical arts of antiquity through alchemy to twentieth century, emphasizing contributions to fundamental theory by Lavoisier, Dalton, Kekule, Van't Hoff, and Rutherford.

499 Undergraduate Directed Study (1–5)

Prerequisites: 2.5 grade point average in chemistry courses or one advanced laboratory course, consent of an instructor to act as sponsor, ability to assume responsibility for independent work and to prepare written and oral reports. Independent research project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 9 units.

Graduate Level Courses (CHEM)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

500 Presentation in the Chemical and Biochemical Sciences (1)

A student presentation and laboratory observation class designed to prepare chemistry and biochemistry graduate students to deliver presentations and/or experimental demonstrations for both research seminars and undergraduate laboratory classrooms.

501 Quantum Chemistry (4)

Prerequisites: CHEM 402, 403. Quantum chemistry, including discussion of molecular orbital and valence bond theories and their applications to chemistry.

503 Advanced Biochemistry (3)

Prerequisites: CHEM 431ABC, 432AB. Recent concepts of enzyme systems, biological oxidation, intermediate metabolism, biosynthesis of macromolecules, biochemical genetics, metabolic regulation, and related phenomena. May be repeated as subject matter changes to maximum of 12 units.

504 Advanced Inorganic Chemistry (4)

Prerequisite: CHEM 418. Selected topics on structure and mechanism in inorganic chemistry; discussion of modern theories applied to inorganic chemistry.

505 Special Topics in Graduate Chemistry (4)

Prerequisite: Instructor consent. Specialized topics in chemistry given at an advanced level. May be repeated once for credit.

580 Graduate Seminar: Chemistry (1)

Attendance at regular departmental seminar program; participation in seminar training program with course instructor; presentation of a satisfactory departmental seminar. May be repeated to maximum of 3 units.

590 Advanced Laboratory (1-2)

Prerequisites: CHEM 302B; 412B or 432B. Introduction to advanced laboratory techniques involving individual student projects. May be repeated four times to maximum of 6 units; maximum of 4 units may be applied to M.S. degree. *Combined units of CHEM 590, 597, 598, and 599 may not exceed 15.*

597 Graduate Research (1-4)

Prerequisite: Approval of departmental adviser. Research leading toward M.S. degree. Graduate students must earn a minimum of 6 and a maximum of 8 units. *Combined units of CHEM 590, 597, 598, and 599 may not exceed 15. Graded CR/NC.*

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field, regular conferences with sponsor. Student's progress determined by oral and/or written reports. May be repeated for credit; *combined units of 597 and 598 may not exceed 13. Combined units of CHEM 590, 597, 598, and 599 may not exceed 15.*

599 Thesis (1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in thesis and oral defense thereof. May be repeated to maximum of 4 units. *Combined units of CHEM 590, 597, 598, and 599 may not exceed 15. Graded CR/NC.*

Department of**Chicano Studies**

School of Natural and Social Sciences

DEPARTMENT OFFICE

King Hall C3100B

Phone: (323) 343-2190

Email: chicano@calstatela.edu

Website: www.calstatela.edu/academic/chicano

Chicano Studies is an intensive investigation of the second largest American ethnic group. The department's approach is multidisciplinary with specific offerings in history, culture, language, literature, arts, and politics of the Chicano community. The curriculum seeks not only to acquaint students with a breadth of knowledge about Chicanos, but also to expose them to theoretical perspectives specific to this area of study.

Chicano Studies provides preparation appropriate for careers in teaching, human services, public policy, law, medicine, the business profession, and for graduate study and research.

The vital presence and increasing significance of the Chicano community in Los Angeles and Southern California allows unique research opportunities for students of Chicano Studies.

The Faculty

Professors: Francisco E. Balderrama, Roberto Cantú, Louis R. Negrete

The program in Chicano Studies includes a Bachelor of Arts degree in Mexican-American Studies and a minor in Chicano Studies for students who are majoring in other fields.

Undergraduate Programs**Bachelor of Arts Degree in Mexican-American Studies**

The Bachelor of Arts degree is available in two options. Option I, the General Program, is intended for students interested in a liberal arts education; Option II is designed specifically for students who are interested in the Multiple Subject Teacher Preparation Option.

Requirements for the Major (60–80 units)

Option I, the General Program, requires a total of 60 units, of which 16 are in lower division and 44 are in upper division courses. Students seeking to combine the study of Mexican-American Studies with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below (Option II). This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

Option I: General Program (60 units)**Lower Division Required Courses (8 units)**

CHS 115 Introduction to Chicano Studies (4)

CHS 205 Composition in Chicano Studies

Lower Division Electives (8 units)

Select 8 units from following with adviser approval:

CHS 110, 111, 112, 150, 157, 200ABC, 201, 230, 250, 255, 257*, 258*

*maximum 3 units in 257 and/or 258

Upper Division Required Courses (16 units)

CHS 403 Contemporary Chicano Literature (4)

CHS 410 Chicano Psychology (4)

CHS 444 History of the Chicano People (4)

CHS 450 Research on Community Problems (4)

Upper Division Electives (28 units)

Select 28 units from following:

Community Dimension (8 units)

CHS 405, 406, 430, 445, 470

Cultural Dimension (12 units)

CHS 311, ENGL/PAS 327, 400, 420, 440, 446

Mexican Dimension (8 units)

CHS/HIST 466ABC, 467; CHS 468

Option II: Multiple Subject Matter Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106–111 units)

Refer to the **Undergraduate Studies: General Information** chapter of this catalog for the list of courses in this common core.

Major Courses (20 units)

CHS 115	Introduction to Chicano Studies (4)
CHS 403	Contemporary Chicano Literature (4)
CHS 410	Chicano Psychology (4)
CHS 444	History of the Chicano People (4)
CHS 450	Research about Community Problems (4)

Social Science (Mexican-American Studies)**Depth Area (20 units)**

CHS 405	The Mexican People as Immigrants (4)
CHS 406	Hispanic Communities in U.S. Society (4)
CHS 430	Chicano Political Behavior (4)
CHS 445	History of the Chicano in Los Angeles (4)
CHS 470	Educational Institutions of the Barrios (4)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in Chicano Studies**Requirements for the Minor (24 units)****Lower Division Required Courses (8 units)**

Select two from:

CHS 115, 201, 230 and lower division Chicano Studies elective courses.

Upper Division Required Courses (8 units)

CHS 403, 444

Electives (8 units)

(select 8 upper division units with adviser approval)

The Credential Program

The Bachelor of Arts degree in Mexican-American Studies with Option II satisfies the subject matter requirements for the Multiple Subject CLAD/BCLAD Teaching Credential. For detailed information about these credentials, consult advisers in the department and in the Charter School of Education. Refer to the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all credential programs.

Graduate and Postbaccalaureate Programs**Master of Arts Degree in Mexican-American Studies**

The Master of Arts degree in Mexican-American Studies is designed for graduate students who wish to pursue advanced study toward the Ph.D. degree; or teach in community colleges, or secondary, or elementary schools; or work as professionals in private agencies or government service. An option is offered in Professional Teacher Preparation. Candidates are admitted only in the fall.

Admission to the Program

Prerequisites to admission are a baccalaureate in Mexican-American Studies or a related field, with at least 20 upper division units in Chicano Studies courses including CHS 403, 410, and 444. Students who lack prerequisite courses must complete them with a *B* (3.0) average or better.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 units in 500-level courses.

Language Requirement

Candidates for the master's degree in Mexican-American Studies must demonstrate proficiency in the Spanish language before beginning thesis work or attempting the comprehensive examination by one of the following methods:

- Passing the Foreign Language Reading Examination (FL 901) in Spanish as offered by the Department of Foreign Languages and Literatures and in accordance with the practices of that department *or*
- Passing a 400-level, four-unit Spanish course with a grade of *C* or better. This course may not be used as an elective for the master's degree.

Required Courses (23 units)

CHS 501AB	Seminar: Theory and Method in Chicano Studies (4-3)
CHS 504	Seminar: Chicano Psychological Issues (4)
CHS 505	Seminar: Chicano Literature (4)
CHS 506	Seminar: Chicano History (4)
CHS 509	Interdisciplinary Seminar in Chicano Studies (4)

Electives (4-22 units)

Remaining course work may include 400 and 500-level courses in Chicano Studies and appropriate related fields selected with departmental consultation and approval.

Professional Teacher Preparation Option (12 units)

Select 12 units with adviser approval in consultation with the Charter School of Education. Core courses required for the partial credential shall not qualify for this option. This option must be declared before advancement to candidacy.

Comprehensive Examination or Thesis (0-6 units)

CHS 596	Comprehensive Examination (0) <i>or</i>
CHS 599	Thesis (6)

A comprehensive examination or a thesis is required for the master's degree. Students should expect to take the comprehensive examination (CHS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

List of Courses (CHS) - Undergraduate Level

Lower Division Courses

110 Introduction to Pre-Cortesian Cultures of Mexico (4)

Introductory course examining the cultural, economic, and historical development of pre-Cortesian Mexico from the Olmec civilization to the fall of the Aztec empire.

111 Cultural Diversity and Chicanos (4)

Examines cultural diversity in U.S. society from Chicano Studies perspective. Explores historical and contemporary relationships, conflict, and reconciliation among major cultural groups. **GE D**

112 Cultural Expressions in the Americas (4)

Explores pre-Columbian artistic representations and aesthetic principles that constitute a cultural legacy--expressed in modern literature, murals, and cinema--of present-day Chicanos/as and Latinos/as in the United States. **GE C2**

115 Introduction to Chicano Studies (4)

Critical study of the literature produced in disciplines and methodologies that constitute Chicano Studies as an interdisciplinary academic field.

150 Chicano and Contemporary Politics (4)

Internal barrio politics and external efforts to manipulate that system, with focus on Chicanos.

157 Beginning Mexican Folk Music (2)

Introduction to traditional Chicano and Mexican folk music. Beginning instruction on culturally traditional musical instruments, including guitar, guitarron, vihuela, violin, and trumpet. May be repeated to maximum of 6 units. Graded CR/NC.

200ABC Spanish for Chicanos (4, 4, 4)

Recommended prerequisite: knowledge and use of Spanish as spoken in Southwestern U. S. Phonetics, grammar, and structure of local dialectal forms compared with standard Spanish; cultural and esthetic values of Spanish literature of Southwestern U.S.

201 Mexican Literature in Translation (4)

Selected major works of Mexican literature in translation.

205 Composition in Chicano Studies (4)

Prerequisites: ENGL 102*; CHS 100 recommended. Principles and techniques of effective English composition essential to writing in a Chicano Studies context; emphasis on individual student practice. Graded CR/NC.

**Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.*

230 Latinas in Modern Society (4)

The changing social, economic, and political role of Latina women in the U.S.

250 The Chicano Experience in Film (4)

A survey and critical evaluation of the portrayal in film of Chicano life experiences.

255 The Diverse Latin American Diaspora in Southern California (4) (Also listed as LAS 255)

The formation of and differences among the varied Latin American people in the Southern California region and their participation in contemporary society. **GE D**

257 Folk Music Ensemble of Mexico (2)

Prerequisites: Knowledge of music preferred but not necessary, instructor consent. Ensemble performance of Mexican folk music, study of techniques and regional styles. Activity 4 hours. May be repeated to maximum of 6 units.

258 Folk Dances of Mexico (1)

Study and practice of step patterns and regional dance styles of Mexico. Activity 3 hours. May be repeated to maximum of 6 units.

Upper Division Courses

311 Chicano Cultural History (4)

Prerequisite: CHS 115. Development and nature of Mexican and Chicano culture, emphasizing especially significant historical movements and their contribution to understanding current cultural problems.

312 Mediterranean and Pre-Columbian Myths in Latin American Literature (4) (also listed as ML 312)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical readings of modern Latin American narrative fiction, poetry and drama, with interpretive emphasis in their allusions to Greco-Roman and Pre-Columbian myths. **GE Theme I**

327 Ethnicity and Emotions in U.S. Film (4)

(Also listed as ENGL 327 and PAS 327)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. The critical analysis of the representations of ethnicity and emotions in U.S. film.

GE Theme

395 Community Service in Chicano Studies (1-3)

Prerequisites: Eight units of approved CHS courses; approval by departmental faculty adviser in consultation with EPIC director; acceptance by community agency. Participation in work of community agency or activity utilizing professional and/or vocational skills in service to community. Graded CR/NC. Credit toward B.A. degree limited to 6 units.

400-Level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

400 Pre-Columbian Literature of Mexico (4)

Prerequisite: CHS 115. Literary works of Mayan, Nahua, and other pre-Columbian peoples of Mexico, with emphasis on structural and esthetic elements, history of thought, and world view.

403 Contemporary Chicano Literature (4)

Prerequisite: CHS 115. Selected literary works by Chicano authors.

405 The Mexican People as Immigrants (4)

Prerequisite: CHS 115. Socioeconomic and political forces that shaped U.S. immigration policies and practices in relation to the Mexican.

406 Hispanic Communities in U.S. Society (4)

Prerequisite: CHS 115. The Chicano experience studied from the comparative perspective of other Latin Americans in the U.S.: Cubans, Puerto Ricans, Central, and South Americans.

410 Chicano Psychology (4)

Prerequisite: PSY 150. Chicano community psychology; focus on relationships among individuals and families, groups, complex organizations; social problems and collective behavior.

420 Mexican and Chicano Folklore (4)

Prerequisite: CHS 115. Mexican and Chicano folklore as a reflection of the cultural, sociopolitical, and historical development of the Chicano community.

430 Chicano Political Behavior (4)

Prerequisite: CHS 115. Socioeconomic and political factors that provide formative framework for unique political behavior patterns characteristically existing in the Chicano community.

440 Development of Spanish Language in Southwestern U.S. (4)

Prerequisite: SPAN 200C. *Conducted in Spanish.* Origin, development, and present characteristics of Spanish language as used in Southwestern U. S.; emphasizes linguistic contributions of various antecedent and contemporary cultures in this area.

444 History of the Chicano People (4)

Prerequisite: HIST 202A or 202B. Historical development of the Chicano people from settlement until the present, with emphasis on period since 1848.

445 History of the Chicano in Los Angeles (4)

Prerequisite: CHS 115. Historical survey of the Los Angeles Chicano community from settlement until the present.

446 Folkloric Dance: Living History of Mexico and the Southwest (4)

Prerequisites: CHS 115. Folkloric dance as it reflects historical and ethnic experiences of people in Mexico and Southwestern U.S.

450 Research on Community Problems (4)

Prerequisites: CHS 115, ENGL 102*, passing WPE score, senior standing. Research that emphasizes special issues of Mexican/Latino communities in Southern California and the nation; includes writing research papers that integrate previous course work in a culminating project.

**Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.*

**466A Colonial Mexico (4)
(Also listed as HIST 466A)**

Social, political, economic, and cultural history of Mexico from pre-columbian times to 1810.

466B Building the Mexican Nation (4)

(Also listed as HIST 466B)

Social, political, economic, and cultural history of Mexico from 1810 to 1910.

466C The Mexican Revolution and its Legacy (4)

(Also listed as HIST 466C)

Social, political, economic, and cultural history of Mexico from 1910 to the present.

467 Modern Mexico and the Chicano People (4)

(Also listed as HIST 467)

Prerequisites: CHS 115. Recommended: CHS/HIST 466. History of modern Mexico and its impact upon the Chicano people from separation from Mexico in 1848 to the present.

468 U.S.-Mexico Borderlands (4)

Prerequisite: CHS 115. Urban and regional development of the U.S.-Mexico border area with particular emphasis on its impact on the Chicano community.

470 Educational Institutions of the Barrios (4)

Prerequisite: Upper division or graduate standing. Analysis and evaluation of typical and special issues in the education of Chicano/Latino students.

490 Special Studies (1-4)

Prerequisites: Upper division or graduate standing, permission of instructor. Intensive study of selected areas in Chicano Studies. May be repeated to maximum of 8 units.

499 Undergraduate Directed Study (1-4)

Prerequisites: Eight units in CHS; 2.75 grade point average, upper division or graduate standing; full-time faculty member to serve as sponsor; recommendation of department chairperson. Project selected in conference with sponsor, progress meetings held regularly, and final report submitted. May be repeated to maximum of 8 units.

Graduate Level Courses (CHS)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

Classified graduate standing is required for admission to all 500 level courses.

501AB Seminar: Theory and Method in Chicano Studies (4-3)

Prerequisite: CHS 450 recommended for 501B. Advanced analysis of Chicano Studies with emphasis on behavioral theory and methodologies applied to special fields of culture, including history, psychology, politics, education, economics, language; emphasis on current social issues.

504 Seminar: Chicano Psychological Issues (4)

Prerequisite: PSY 150 or CHS 410. Selected psychological issues of Chicanos including such topics as cultural psychodynamics, the fully functioning Chicano, special psychological problems, therapy and counseling effectiveness, and social psychological models.

505 Seminar: Chicano Literature (4)

Prerequisite: CHS 403. Literary genres within Chicano literature in relation to the cultural and social context of Chicanos.

506 Seminar: Chicano History (4)

Prerequisite: CHS 444. Advanced study of Chicano historiography readings, reviews, discussions, oral reports, and research proposals.

509 Interdisciplinary Seminar in Chicano Studies (4)

Prerequisite: Advancement to candidacy in master's degree program. Interdisciplinary investigation and discussion of selected topics in Chicano studies.

598 Graduated Directed Study (1-4)

Prerequisite: Consent of faculty sponsor, approved study prior to registration. Directed reading and critical analysis of advanced topics in Chicano Studies. Regular conference with sponsor. May be repeated for credit to maximum of 8 units.

599 Thesis (1-6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. An oral examination about the thesis is required. Must be repeated to total of 6 units. Graded CR/NC.

Department of

Child and Family Studies

School of Health and Human Services

DEPARTMENT OFFICE

Temporary Location: FA 143

Engineering and Technology A535

Phone: (323) 343-4590

E-mail: cfsdept@calstatela.edu

Website: http://www.calstatela.edu/dept/chld_fa/index.htm

The Department of Child and Family Studies prepares individuals to understand the relationship between theory, research and practice and to be able to apply this knowledge to issues in child and family studies. Students are prepared to think critically about child and family developmental processes by identifying relevant issues, developing practical solutions and applying and disseminating knowledge. Specialists in the discipline seek to improve the quality of life for individuals, children and families.

Child Development, the empirical study of the growth and development of the individual from birth through adolescence, provides a foundation of understanding and skill for students interested in professional careers providing various services to children and families. It prepares students for advanced study of child and family development as well as for professional education courses leading to the Multiple Subject teaching credential and Special Education credentials.

Students with a background in child and family development are able to pursue professional opportunities in many fields other than teaching, including working with children in hospitals; developing social and educational programs outside of schools; production of children's films, books, and magazines; educational television; children's toys and educational software; and child advocacy at local, state, and national levels.

The Faculty

Associate Professors: William Franklin, Valerie C. Kehm, Marlene Zepeda.

Assistant Professors: Anupama Joshi, Kaveri Subrahmanyam.

Undergraduate Programs

Bachelor of Arts Degree in Child Development

The Bachelor of Arts degree in Child Development includes a choice between two options: Option I, which prepares students to work as administrators in preschools, day care centers or youth agencies or to gain entry into careers with children and families other than teaching; and Option II, a Commission-approved subject matter program for the Multiple Subject Teaching Credential.

Students entering the program should plan their course work with a Child and Family Studies adviser. Students seeking the credential should consult the Charter School of Education. Current information is available in the Child and Family Studies office. Students who fulfill the requirements for the Multiple Subject credential by completing Option II are also eligible for the BCLAD/CLAD credential if they fulfill additional requirements.

Departmental Honors Program

The child development major includes an honors program for students who have completed at least 16 upper division units in the Child Development core, maintained a minimum 3.5 grade point average, passed the Graduation Writing Assessment Requirement, and are approved by the Child and Family Studies advisers. Applications are available in the Child and Family Studies office.

Requirements for the Major (75-107 units)

Option I, the General option, requires a core of 68-69 units of lower and upper division courses plus an area of specialization. The Parenting specialization requires an additional 32 units; the Early Childhood Program Administration specialization requires an additional 35 units;

the Youth Agency Administration specialization requires an additional 32-38 units; and the Child Life/Hospitalized Child specialization requires an additional 33 units. Students seeking to combine the study of Child Development with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below. This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

Students should plan their programs with careful attention to prerequisites for upper division courses. Some courses that meet general education requirements are included in the core. Students should complete these requirements and other general education requirements before proceeding with the major.

Grades of C or higher are required in all courses used to meet major requirements.

Options**Option I: General Option (100-107 units)****Core Requirements (68-69 units)**

CHDV/SOC 120+ Intimate Relationships (4)

CHDV 140 Child Development (4)

CHDV 200 Observational Techniques for the Study of Children (4)

CHDV 300 Infant Development (4)

CHDV 320 The Young Child (4) or

CHDV 426 Hospitalized Child/Child Life Program (5)

Core Requirements (cont'd)

CHDV 340 Middle Childhood and Adolescence (4)

CHDV 412	Issues in Child Abuse, Neglect and Family Violence (4) or
COUN 460	Laws Relating to the Child and Family (4) or
SW 476*	Child Welfare (4)
CHDV 424	Divorce, Remarriage and Children (4)
CHDV 425	Ethnic Identity and Awareness in Children and Families (4)
CHDV 430	Parent -Child Development Over the Family Life Cycle (4)
CHDV 437	Families, Children and Crisis (4)
CHDV 443/PSY 433	Psychology of Cognitive Development (4)
CHDV 496	Senior Seminar (4) or
CHDV 497**	Senior Honors Thesis (4)
CHDV/SPCH 494	Communication Behavior in Childhood (4) or
COMD 456	Development of Verbal Behavior in Children (4)
EDEL 462	Dynamics of Play (4)
EDFN 452	Statistics in Education (4)
PSY 150+	Introductory Psychology (4)

+ Indicates course meets GE requirement.

* Students following specialization C should take SW 476.

**Open to Honors Program participants only.

Areas of Specialization (32-38 units)

A. Parenting (32 units)

Required Core (28 units)

CHDV 431	Family Dynamics and Parenting (4)
CHDV 432	Social Dynamics of Parenting (4)
CHDV 433	Approaches to Parent Education (4)
CHDV 434	Group Dynamics for Parent Education (4)
CHDV 435	Parenting in High Risk Situations (4)
CHDV 441	Men, Women, and Children in Transition (4)
CHDV 470	The Family and the Law (4)

Directed Elective (4 units) with approval of adviser

B. Early Childhood Program Administration (35 units)

CHDV 422	Administration of Preschool and Day Care Programs (5)
CHDV 433	Approaches to Parent Education (4)
CHDV 495	Directed Field Experience (4,2)
EDEL 432	Teaching Mathematics for Early Childhood (4) or
NTRS 416	Child Nutrition (4)
EDEL 473	Storytelling For Teachers (4) or
ENGL 430	Children's Literature (4) or
SPCH 490	Studies in Children's Speech Arts (4)
EDSP 400	Foundations of Special Education (4) or
EDSP 416	Working With Families of Young Handicapped Children (4)
MUS 400	Development of Perception in Musical Arts (4) or
MUS 490	Music for Early Childhood (4)

C. Youth Agency Administration (32-38 units)

With careful planning, students can earn the credit certificate in Youth Agency Administration concurrently with this specialization. Interested students should contact the American Humanics Program Director, PE 237 (323) 343-4580. The certificate program is described in the section entitled *Youth Agency Administration*.

Required Core (8 or 12 units)

*SW 476	Child Welfare (4)
YAA 290	Introduction to Youth Agency Administration (4)
YAA 490	Volunteer Management and Fund Raising (4)

**If not taken in the core.*

Accounting and Budgeting (4 units)

ACCT 202	or POLS 466
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Community Organization (4 units)

CRIM 304	or PSY 445 or SW 482
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Counseling and Group Work (4 units)

Select one from following: COUN 406, SOC 420, SW 461 **or** 475

Personnel Management (4 units)

Select one from following: MGMT 473, POLS 463, 472; PSY 446

Public Relations and Communications (4 units)

Select one from the following: SPCH 396, 430, 489; POLS 470; SOC 424

Internship (4-6 units)

YAA 495 (Must Be Arranged Through American Humanics, Inc. Executive Director.)

D. Child Life / Hospitalized Child (33 units)

ART 445	Art as Therapy (4) or
MUS 491	Music as Therapy in Human Development (4)
CHDV 426	Hospitalized Child/Child Life Program (5)
CHDV 441	Men, Women and Children In Transition (4)
CHDV 470	The Family And The Law (4)
EDSP 400	Foundations in Special Education (4)
NTRS 416	Child Nutrition (4)
SOC 453	Social Aspects of Death and Bereavement (4)
SPCH 489	Intercultural Communication (4)

Option II: Multiple Subject Teacher

Preparation Option

(75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses

(106-111 units)

Refer to the **Undergraduate Studies: General Information** chapter of this catalog for the list of courses in this common core.

Major Courses (20 units)

CHDV 140	Child Development (4)
CHDV 200	Observational Techniques for the Study of Children (4)
CHDV 300	Infant Development (4)
CHDV 412	Issues in Child Abuse, Neglect and Family Violence (4) or
COUN 460	Laws Relating to the Child and Family (4) or
SW 476	Child Welfare (4)
CHDV 496	Senior Seminar (4) or
CHDV 497	Senior Honors Thesis (4)

**Open only to Child Development Honors Program participants.*

Human Development Depth Area (20 units)

CHDV 320	The Young Child (4)
CHDV 430	Parent-Child Development Over the Family Life Cycle (4)
CHDV 443/PSY433	Psychology of Cognitive Development (4)
CHDV/SPCH 494	Communication Behavior in Childhood (4) or
COMD 456	Development of Verbal Behavior in Children (4)
EDEL 462	Dynamics of Play (4)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in Child Development

The minor in Child Development provides a foundation for students majoring in other fields who wish to prepare for child-oriented careers in community development, recreational services, business, management, early childhood law, family studies, speech or media studies or to fulfill requirements for a children's center permit. A total of 36-37 units is required for this minor. Prerequisites are required for some courses; students should consult with an adviser.

Requirements for the Minor (36-37 units)**Required courses (12 units)**

CHDV 200	Observational Techniques for the Study of Children (4)
CHDV 300	Infant Development (4)
CHDV 320	The Young Child (4)

Other Requirements (24-25 units)

Select one from following (4 units)
 CHDV 321, 421
 PSY 326
 SOC 440

Select three from following (12 units)
 ART 435
 COMD 456
 EDEL 462
 ENGL 430
 SPCH 490
 MUS 490
 TA 301 **or** 306

Select one from following (4-5 units)
 CHDV 425 (4) **or** CHDV 426 (5)

Select one from following (4 units)
 CHDV 340
 PSY 412B
 SOC 322A

Certificate Program

The Child Development degree offers course work acceptable toward fulfillment of requirements for the interdisciplinary credit certificate program in Child Maltreatment and Family Violence offered by the School of Health and Human Services.

The Credential Program

Option II in the B.A. degree in Child Development described earlier in this section, has been approved by the California Commission on Teacher Credentialing for waiving the MSAT examination for the Multiple Subject Teaching Credential.

Students who fulfill the requirements for the Multiple Subject credential by completing the Child Development major are also eligible for the BCLAD credential if they meet the following additional requirements:

- Demonstrate spoken and written fluency in the Spanish language.
- Demonstrate knowledge of and sensitivity to the culture of Latino children.

Students should consult advisers in both the Child Development office and the Charter School of Education. Refer to the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Graduate and Postbaccalaureate Programs

Master of Arts Degree

The Master of Arts degree in Child Development strengthens professional competence and prepares individuals for various leadership positions as child development specialists. Students may coordinate degree requirements with those for the Multiple Subjects and Special Education Credentials, or the Early Childhood Special Education Credential Program.

Admission to the Program

In addition to the University requirements for admission to graduate study, applicants must satisfy specific departmental requirements before admission to the program. These include:

- Baccalaureate in child development or a closely related academic field from a fully accredited college or university.
- Minimum grade point average of 2.85 in the last 90 quarter units.
- Two letters of recommendation and a written statement of intent.
- Completion of the department application form, including a writing sample.

Students without a baccalaureate in child development or a closely related field must complete a 27-unit prerequisite program before being admitted to the child development master's degree program. Further information is available in the Child and Family Studies office.

After receiving conditionally classified graduate standing in the University, students must meet with a Child Development graduate adviser prior to the first quarter of attendance. All department requirements and forms will be discussed at this time. Students must apply to the department at least one quarter prior to beginning the graduate program.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 28 in 500-level courses.

Required Core (28 units)

- | | |
|----------|---|
| CHDV 500 | Studying Children: Theories and Methods (4) |
| CHDV 501 | Infants and Toddlers—Development and Care (4) |
| CHDV 502 | Children under Transitory Stress (4) |
| CHDV 503 | Working with Parents (4) |
| CHDV 504 | Research Methods in Child and Family Studies (4) |
| CHDV 505 | Selected Topics in Current Issues and Research in Child Development (4) |
| CHDV 595 | Graduate Field Work (4) |

Electives (11–17 units)

Students must select electives in consultation with a graduate adviser to give meaningful support to their professional goals. The development of an individualized interdisciplinary program is essential. Students also seeking a Multiple Subject Credential or an Early Childhood Special Education Credential should select electives in consultation with a credential adviser in the Charter School of Education and a child development graduate adviser.

Comprehensive Examination or Thesis or Project (0, 6 units)

- | | |
|----------|---|
| CHDV 596 | Comprehensive Examination (0) <i>or</i> |
| CHDV 599 | Thesis or Project (1-6) |

A comprehensive examination or a thesis or project is required for the master's degree. Students should expect to take the comprehensive examination (CHDV 596) the quarter they complete all course work on their program or thereafter and must comply with school and departmental requirements. A thesis or project, in lieu of the comprehensive examination, may be undertaken upon approval by a child development faculty committee.

List of Courses (CHDV) - Undergraduate Level

Lower Division Courses

120 Intimate Relationships in our Diverse Society (4) (also listed as SOC 120)

Principles of interaction in intimate relationships in our diverse society. Understanding/valuing diversity and similarity (gender, ethnicity, class, etc.) In achieving intimacy. Developing knowledge/skills for dealing with relationship issues. **GE E**

140 Child Development (4)

Study of the whole child from conception to adolescence in a dynamic set of diverse contexts; examination of the interaction among biological, social/cultural, and psychological domains from a developmental perspective. **GE D**

154 L,P Selected Topics in Child Development (1–4)

Prerequisites: As needed for specific topic. Special topics of interest to students in child development as announced in *Schedule of Classes*. May be repeated as subject matter changes.

200 Observational Techniques for the Study of Children (4)

Prerequisite: CHDV 140. Overview of observational techniques for theoretical interpretation and use of observational data. Observation required weekly.

Upper Division Courses

300 Infant Development (4)

Prerequisite: CHDV 200. Theory and dynamics of physical, cognitive, and affective development from conception to 2 1/2 years. Lecture 3 hours, activity 3 hours.

320 The Young Child (4)

Prerequisite: CHDV 200. Theoretical and empirical bases for understanding the child from 2 1/2 to 7 years. Lecture 3 hours, participation with children in supervised setting 3 hours.

321 Urban Families: Contemporary Issues (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examining the role of diversity in dynamic interactions between culturally diverse families and other institutions in urban environments. Processes of resolving tensions between family values/goals/needs and urban demands.

340 Middle Childhood and Adolescence (3)

Prerequisite: CHDV 200. Theoretical and empirical bases for understanding children from 6 to 18 years. 3 hours lecture, 3 hours activity.

400 Level Courses

With graduate adviser approval, appropriate 400-level courses in Child Development-related disciplines may be applied toward requirements for the master's degree.

412 Issues in Child Abuse, Neglect, and Family Violence (4)

Overview of legal, health, social, psychological, educational, and cultural meaning of child maltreatment and family violence; field observations at appropriate agencies and sites.

421 Marriage and Family Dynamics (4)

Prerequisite: CHDV/SOC 120. Dynamic processes of constructive family interaction.

422 Administration of Preschool and Day Care Programs (5)

Prerequisite: CHDV 320 or 426. Organization and management of finances, staff, equipment, physical space, and programs. Meets State Health Department requirements for licensing as a director. Lecture 4 hours, activity 2 hours.

423 Parenting (4)

Prerequisite: CHDV/SOC 120 or CHDV 200. Aspects and problems of parenting from conception to adulthood.

424 Divorce, Remarriage and Children (4)

Prerequisites: CHDV/SOC 120, CHDV 140. Impact of divorce and remarriage on children through the life cycle. Family systems dynamics, stress, conflict, custody, visitation, attachment issues, support networks, and coping.

425 Ethnic Identity and Awareness in Children and Families (4)

Prerequisite: CHDV 340 or PSY 412B. Children's development of ethnic identity and awareness; transmission of differing cultural patterns within family systems and social institutions; working with issues of prejudice, stereotyping, and ethnic pride.

426 Hospitalized Child/Child Life Program (5)

Prerequisites: CHDV 200; extensive experience in preschool setting or CHDV 320. Working with hospitalized children from a non-medical perspective; interaction and activity planning; play therapy. Activity six hours in hospital setting.

430 Parent-Child Development Over the Family Life Cycle (4)

Prerequisites: CHDV 200; CHDV/SOC 120. Interplay of personal and family developmental cycles; developmental tasks of parents, children, and mutual tasks; congruence and differences.

431 Family Dynamics and Parenting (4)

Prerequisites: CHDV 200, CHDV/SOC 120. Dynamics of family system over generations; impact of family systems dynamics on parents and parent-child relationships; dynamics of communication, cohesion, games, triangles, individualization, and role reversal.

432 Social Dynamics of Parenting (4)

Prerequisites: CHDV 200, CHDV/SOC 120. Influence of ethnicity, religion, social class, family size, timing of parenting, divorce, peer groups, schools, work, and other diverse social environmental factors on parenting dynamics.

433 Approaches to Parent Education (4)

Prerequisites: CHDV 200, CHDV/SOC 120. Various approaches to parenting; popular literature and media about parenting; uses of popular literature by parent-educators to empower parents; social, developmental, behavioral, and psychological models.

434 Group Dynamics for Parent Education (4)

Prerequisite: instructor consent. Culminating course in Parent Educators certificate program. Dynamics of parenting groups, especially didactic and growth models; group leadership, composition, goals, cohesion, and processes; placement in ongoing parenting group. Lecture 2 hours, laboratory 6 hours.

435 Parenting in High Risk Situations (4)

Prerequisites: CHDV 200, CHDV/SOC 120. Analysis of multiproblem families focusing on parenting in difficult situations: teen parents, drugs and alcohol problems, gangs, chronic illness, divorce, death, family violence, mental illness, and parental empowerment.

437 Families, Children and Crisis (4)

Prerequisites: CHDV/SOC 120, CHDV 140. Models of family stress/crises including family systems and family management theories; developmental aspects of stress/ crises for families and children; individual, family and community resources.

440 Personal and Family Financial Management (4)

Family financial concerns from the consumer viewpoint: banking, savings, and credit; home financing; insurance; investment; income tax; wills and estate planning.

441 Men, Women and Children in Transition (4)

Prerequisite: CHDV 431. Examination of changes in the lives of men, women and children within the family context due to political, social, and economic systems; public policy and advocacy for children and families.

443 Psychology of Cognitive Development (4) (also listed as PSY 433)

Prerequisite: PSY 412A. Evolution of cognitive processes from simple organisms to adult human beings. Piaget's Theory: development of dialectic operations, perceptual and language development and apprehension of reality; relationship of social development to cognitive development.

454L,P Special Topics in Child Development (1-4)

Prerequisite: Varies with specific topic. Current topics of special interest to CHDV students as announced in *Schedule of Classes*. May be repeated for 12 units of credit as subject matter changes.

470 The Family and the Law (4)

Prerequisite: Senior standing. Examination of family interaction with the U.S. legal system; emphasis on husband-wife and parent-child legal relationships, rights, and responsibilities.

494 Communication Behavior in Childhood (4) (also listed as SPCH 494)

Oral language and communicative behavior in children; studies in speech and language experiences basic to development of communication skills competence.

495 Directed Field Experience (4, 2)

Prerequisite: Departmental approval. Supervised experience in preschool settings or early childhood program. May be repeated to 8 units. CR/NC.

496 Senior Seminar (4)

Prerequisites: Completion of 135 units; satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Examination of the major issues, themes, theories and research findings in child development with an emphasis on their relationship to each other.

497 Senior Honors Thesis (4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); admission to Child Development honors program. Integration of theory, research, and practice through reading of current topics in child development and writing of honors thesis under supervision of honors adviser; approval and regular consultation with adviser required.

499 Undergraduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated for 12 units of credit.

Graduate Level Courses (CHDV)

With graduate adviser approval, appropriate 400-level courses in Child Development-related disciplines may be applied toward requirements for the master's degree.

Classified graduate standing is required for admission to all 500 level courses

500 Studying Children: Theories and Methods (4)

The foundation of graduate level study of children; major theories of child development; issues and methods in current research.

501 Infants and Toddlers—Development and Care (4)

Physical, cognitive, affective development, birth–30 months; environmental, cultural influences. Lecture 3 hours, laboratory 3 hours.

502 Children under Transitory Stress (4)

Normal infants' and young children's efforts to cope with physical, situational stresses such as short-term hospitalization, death, serious illness, separation from family, divorce, birth of sibling. Lecture 3 hours, laboratory 3 hours.

503 Working with Parents (4)

Parent education trends: theory, dynamics, implementation, programs, research, and community resources. Lecture 3 hours, laboratory 3 hours.

504 Research Methods in Child and Family Studies (4)

Prerequisites: Statistics course and CHDV 500. Current research issues about children and families; ways of studying children and families: observation, interviews, questionnaires, testing; ethical issues; development and implementation of pilot research study.

505 Selected Topics in Current Issues and Research in Child Development (4)

Prerequisite: CHDV 504. In-depth study of selected topics related to current issues and research in child development.

529 Seminar: Child and Family Development (3)

Prerequisite: Upper division child/family course. Child and family development, integrating developmental research and theory.

595 Graduate Field Work (1–4)

Prerequisites: CHDV 501, 502, 503; instructor consent to act as supervisor. Supervised practical experience in specialized community settings related to infant care, parent education, and/or hospitalization; assignments on individual basis. May be repeated to maximum of 8 units. Graded CR/NC.

598 Graduate Directed Study (1–4)

Prerequisites: CHDV 501, 502, 503; instructor consent to act as supervisor. Independent directed study of advanced topics in the field of child development; regular conferences with instructor. May be repeated to maximum of 8 units.

599 Thesis or Project (1–6)

Prerequisites: CHDV 505; advancement to candidacy; instructor consent to act as adviser; approval of topic prior to registration for thesis or project. Independent research resulting in thesis or project. Must be repeated to maximum of 6 units. Graded CR/NC.

Department of

Civil Engineering

School of Engineering and Technology

DEPARTMENT OFFICE

Engineering and Technology A212

Phone: (323) 343-4450

Email: civilengr@calstatela.eduWebsite: <http://web.calstatela.edu/academic/engr/tmp/et/civil/index.htm>

Civil Engineering is the broadest of the engineering disciplines, extending across many technical specialties, specialties that are not independent but interact with each other. Civil engineers plan, design, and supervise the construction of facilities that vary widely in nature, size and scope: space satellites and launching facilities, offshore structures, bridges, buildings, tunnels, highways, transit systems, dams, airports, irrigation projects, treatment and distribution facilities for water and collection and treatment facilities for wastewater.

In addition to facility design and construction, civil engineers also have options to teach and to participate in research. As you develop your skills, you will have the opportunity to move into the area of engineering management, overseeing the completion of entire projects.

The Faculty

Professors: Anjan K. Bhaumik, Hassan Hashemian, Raymond I. Jeng, Irving Kett, Young C. Kim (Chair), Rupa P. Purasinghe, Narendra B. Taly.

Assistant Professor: Mark R. Tufenkjian

Emeriti: Frank R. Balle, William G. Plumtree, Gunjit Sikand, Wen L. Wang

Undergraduate Programs

Bachelor of Science**Degree in Civil Engineering**

The civil engineering program provides instruction in the basic sciences and in engineering analysis and design. Areas of interest within civil engineering include: environmental and sanitary engineering, geotechnical engineering, highway and transportation engineering, hydraulics and hydrology, ocean engineering, and structural analysis and design.

Requirements for the Major (146 units)**Lower Division Required Courses (76-77 units)**

MATH 206-209	Calculus I-IV (4 each)
MATH 215	Differential Equations (4)
PHYS 201-203	General Physics I-III (4 each)
PHYS 204 or CHEM 102	General Physics IV (4) or General Chemistry II (5)
CHEM 101	General Chemistry I (5)
ENGR 100	Introduction to Engineering (1)
CE/ME 201	Statics (4)
EE 204	Circuit Analysis I (4)
CE/ME 205	Strength of Materials I (4)
ENGR 207	Materials Science and Engineering (4)
CE/ME 210	Matrix Algebra for Engineers (2)
CE/ME 211	Statistics and Probability for Engineers (2)
CS 290	Introduction to FORTRAN Programming (2)
CE 190	Introduction To CAD (1)
CE 195	Civil Engineering Design I (4)
CE 202	Plane Surveying (4)
CE 290	Numerical Methods for Engineers (3)

Upper Division Required Courses (53 units)

CE 303	Fluid Mechanics I (4)
CE 312	Strength of Materials Laboratory I (1)
CE 313	Fluid Mechanics Laboratory I (1)
CE 320	Dynamics I (4)
CE 360	Structural Mechanics I (4)
CE 361	Introduction to Structural Design I (4)
CE 364	Concrete Laboratory (1)
CE 366	Soil Mechanics I (4)
CE 368	Soil Mechanics Laboratory (1)
CE 370	Transportation Engineering (4)
CE 384	Introduction to Environmental Engineering (4)
CE 487	Design of Water Resources Systems (4)
CE 495	Civil Engineering Design Project (4)
ENGR 300	Economics for Engineers (4)
ENGR 301	Ethics and Professionalism in Engineering (1)
ENGL 306	Technical Writing (4)
ME 326A	Thermodynamics I (4)

Upper Division Electives (17 units)

Select a coherent program of 16 units lecture and design electives, which may include a maximum of 4 units from related fields with departmental approval, plus 1 unit of laboratory electives. A minimum of 8 units must be selected from the group designated as design electives. A minimum of 12 units in upper division electives must be taken in residence at Cal State L.A.

Design Electives: (8-16 units)

CE 461, 462, 463, 465, 467, 471, 472

Lecture Electives: (0-8 units)

CE 365, 387, 402, 460, 474, 475, 483, 484, 485

Laboratory Electives: (1 unit)

CE 372, 381, 413, 473

ME 412

CE 499

Graduate and Postbaccalaureate Programs

Master of Science

Degree in Civil Engineering

The Master of Science degree in Civil Engineering at Cal State L.A. is structured to prepare students for advancement in employment with opportunities in design, research, and development, as well as for further study at the doctoral level. Classes are offered year-round on the quarter system to accommodate the needs of working professionals.

Requirements for the Degree (45 units)

A total of 45 units are required, with at least 24 in 500-level courses. A thesis or comprehensive examination is required.

The advice and approval of a civil engineering graduate adviser must be obtained before enrolling in any course.

Area of Specialization (24–37 units)

Select a minimum of 24 units in 500-level engineering courses. At least 20 units must be in civil engineering courses from the following list, must be in a coherent group of courses that fulfills the student's objectives, and must have the approval of adviser and department chair.

CE 560	Structural Mechanics III (4)
CE 561	Advanced Steel Design (4)
CE 562	Reinforced Concrete Design II (4)
CE 563	Matrix Computer Analysis of Structures (4)
CE 564	Numerical Methods in Structural Analysis (4)
CE 565	Dynamics of Structures (4)
CE 566	Soil Mechanics II (4)
CE 569	Earth Structures (4)
CE 570	Soil Dynamics (4)

Area of Specialization (Cont'd)

CE 571	Highway Design (4)
CE 572	Plates and Shells (4)
CE 574	Traffic Flow Analysis
CE 575	Urban Transportation Planning (4)
CE 577	Bridge Engineering (4)
CE 581	Modeling Techniques in Hydraulic Engineering (4)
CE 582	Statistical Hydrology (4)
CE 583	Hydrology II (4)
CE 586	Open Channel Hydraulics (4)
CE 587	Hydraulics II (4)
CE 588	Hydraulic Structures (4)
CE 589	Coastal Engineering (4)

Electives in Engineering (0–13 units)

Select from 400- and 500-level courses.

Electives in Related Fields (8–21 units)

Select a minimum of 8 units, other than in civil engineering, related to program. These will usually be in mathematics. MATH 402A (4 units) must be included in these electives unless already completed.

Comprehensive Examination or Thesis (0, 4 units)

ENGR 596 Comprehensive Examination (0) or
ENGR 599 Thesis (4)

Students who select the comprehensive examination (ENGR 596) should expect to take it the quarter they complete all courses work on their program, and must comply with school and departmental requirements.

List of Courses (CE) – Undergraduate Level

Lower Division Courses

154 Special Topic in Civil Engineering (1-4)

Prerequisites: Instructor consent and as needed for specific topic. Current topics of special interest to students in engineering, as announced in the Schedule of Classes. May be repeated to maximum of 8 units.

190 Introduction To CAD (1)

Prerequisites: MATH 103; TECH 110 or one year of high school mechanical drawing. Use of computers in 2 and 3 dimensional drafting and pictorial representation using CAD software. Computer graphics fundamentals and descriptive geometry. Laboratory 3 hours.

195 Civil Engineering Design I (4)

Prerequisites: CE 190, CE 202, PHYS 201. Introduction to civil engineering design including problem identification, data gathering, analysis, feasibility study, alternative design, decision making and communication. Lecture 2 hours, Laboratory 2 hours.

201 Statics (4)

(also listed as ME 201)

Prerequisites: MATH 207, PHYS 201. Fundamental principles of statics, resolution and composition of forces, algebraic and graphic solutions, friction, center of gravity, moment of inertia.

202 Plane Surveying (4)

Prerequisite: MATH 103 or satisfactory score on mathematics placement test. Principles and practices of measurement of distances, directions, and elevations; care and use of level, transit, plane table; mapping practice, and symbols. Lecture 2 hours, laboratory 6 hours.

205 Strength of Materials I (4)

(also listed as ME 205)

Prerequisite: ENGR 201. Stresses and strains under axial, shearing, and torsional forces; flexural stresses and deflections of simple beams; columns; and combined stresses.

208 Statics and Strength of Materials (4)

(also listed as ME 208)

Prerequisites: MATH 207, PHYS 201. Principles of statics, force systems and equilibrium, structures, machines, distributed force, centroid, moment of inertia, stresses, strains, and deformations under axial, torsional, and bending loads. For Electrical Engineering students only.

210 Matrix Algebra for Engineers (2)

(also listed as ME 210)

Prerequisites: MATH 208, PHYS 201. Introduction to calculations using vectors; matrix operation; solution of linear simultaneous equations; coordinate transformation; application to engineering problems.

211 Statistics and Probability for Engineers (2)
(also listed as ME 211)

Prerequisites: MATH 208, PHYS 201. Introduction to calculations using probability distributions and densities; concepts in statistics; application to engineering problems.

220 Our Oceans and Our Future (4)

The engineering aspects of ocean environment, its effect on humankind, and our future. Intended for all majors. **GE B3**

290 Numerical Methods for Engineers (3)

Prerequisites: ENGR 210, 211. Applied numerical methods for engineers with microcomputer applications. Lecture 2 hours, laboratory 1 hour.

Upper Division Courses**303 Fluid Mechanics I (4)**
(also listed as ME 303)

Prerequisites: CE/ME 320, PHYS 202. Fundamental principles and methods of fluid mechanics; thermodynamics of fluid flow; Newtonian fluids; equations of fluid flow; laminar and turbulent flow; applications.

312 Strength of Materials Laboratory I (1)
(also listed as ME 312)

Prerequisites: ENGR205 (may be taken concurrently). Tests of engineering materials in tension, compression, bending, and torsion; verification by experiment; basic theories learned in strength of materials. Laboratory 3 hours.

313 Fluid Mechanics Laboratory I (1)
(also listed as ME 313)

Prerequisites: CE/ME 303. Experiments on fluid properties, fluid statics, conservation of mass, energy, and momentum, and fluid resistance. Laboratory 3 hours.

320 Dynamics I (4)

(also listed as ME 320)

Prerequisite: ENGR 201. Kinematics and kinetics of rigid bodies; work, kinetic energy, impulse, momentum in two and three dimensions; applications to space mechanics.

352 Technological Aspects of Urban Environment (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Current engineering practice in dealing with urban problems such as financial, transportation, pollution, communications, public utilities, land use planning and public health. Not acceptable for engineering technical elective credit.

GE Theme D

358 Environment, Earth Systems and Technology (4)
(also listed as GEOG 358)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Consider the role of technology in the changing relationships between human societies and their environment; studies the impact of the agricultural, industrial and information revolutions on natural systems and sustainability.

GE Theme G

360 Structural Mechanics I (4)

Prerequisite: Grade of C or higher in ENGR 205. Analysis of determinate structures: beams, frames, and cables. Introduction to influence lines and analysis of indeterminate structures.

361 Introduction to Structural Design I (4)

Prerequisite: CE 360. Loads on buildings and load distribution in framed structures, codes and specifications, design of simple beams, columns and tension members made from steel, concrete, and timber.

364 Concrete Laboratory (1)

Prerequisites or corequisites: CE 361, CE/ME 312. Physical tests of cement, concrete aggregates, tensile strength test of cement, proportioning of concrete mixtures, slump test, compressive and flexural strength tests. Laboratory 3 hours.

365 Specifications and Cost Estimating (4)

Prerequisite: Senior standing in engineering. Building specifications and codes, estimating costs, materials handling and transport, excavation, concrete, wood, masonry, and steel construction.

366 Soil Mechanics I (4)

Prerequisites: ENGR 205; prerequisite or corequisite: CE/ME 303. Physical and mechanical properties of soils, classifications, permeability, seepage, capillarity, consolidation, settlement, stresses, pressures, strength theories, and testing methods.

368 Soil Mechanics Laboratory (1)

Prerequisites: CE 366, CE/ME 312. Physical properties of soils, soil classification, mechanical analysis, permeability, shearing strength, and consolidation tests. Laboratory 3 hours.

370 Transportation Engineering (4)

Prerequisites: CE 202, ENGR 210, 211. Fundamental principles for analysis, planning, design, and operation of transportation systems.

372 Asphaltic Materials Laboratory (1)

Prerequisite: CE/ME 312. Laboratory tests on asphalt cement and aggregates; design of asphaltic mixtures; proportioning of asphalt cement and aggregates; preparation of test specimens. Laboratory 3 hours.

381 Computer Aided Design Laboratory (1)

Prerequisites: CE 303, 361, 370. Use of computer-aided visualization, comprehension and graphical representation in planning and design of civil engineering projects.

384 Introduction to Environmental Engineering (4)

Prerequisites: CE/ME 303, CHEM 101. Introduction to environmental engineering; environmental and ecological systems; physical, chemical, and biological processes; water and wastewater treatment; air pollution; solid and hazardous wastes; regulations and impact assessment.

387 Hydraulics I (4)

Prerequisite: CE/ ME 303. Introduction to open channel flow, gradually varied flow, hydraulic machinery, and introduction to unsteady flow.

398 Cooperative Education (1-4)

Prerequisites: Approval of student adviser and department chair. Integration of civil engineering work experience with academic program, individually planned through coordinator. Minimum of 10 hours per week required for each unit. Graded CR/ NC.

400-Level Courses

All 400-level courses may be applied toward master's degree requirements subject to limits established by department and approval of a graduate adviser:

402 Strength of Materials II (4)

Prerequisites: ENGR 205, MATH 215. Stress-strain relationship in three dimensions, energy principles; theories of failure, curved beams, thick wall cylinders, shear center, unsymmetrical bending, and torsion in noncircular sections.

413 Fluid Mechanics Laboratory II (1)
(also listed as ME 413)

Prerequisite: CE/ME 313; prerequisite or corequisite: CE 387 or ME 408. Experiments on subsonic and supersonic flow, free surface flow, pumps, turbines, fans, and unsteady flow. Laboratory 3 hours.

454 Special Topics in Civil Engineering (1-4)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced civil engineering subjects upon approval of instructor.

454L Special Topics in Civil Engineering (1)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced civil engineering subjects upon approval of instructor. Tests include physical tests of cement, aggregates and other agents, mix design; workability and strength tests. Concrete canoe design and construction.

460 Structural Mechanics II (4)

Prerequisite: CE 360. Analysis of indeterminate structures; moment distribution, slope deflection, and approximation methods; three dimensional frames and long span structures.

461 Design of Steel Structures (4)

Prerequisites: CE 360, 361. Design of steel structures; lateral buckling of beams and frames, built-up beams, girders and trusses; moment connections, torsion and unsymmetrical bending; diaphragms and lateral force designs.

462 Reinforced Concrete Design I (4)

Prerequisites: CE 360, 361. Strength design of reinforced concrete structures, beams, slabs, frames, columns, footings, and retaining walls.

463 Timber and Masonry Design (4)

Prerequisites: CE 360, 361. Wood properties and design of wood structural elements, plywood and glulam products; reinforced masonry (brick and concrete) units, material properties, design of reinforced masonry structural elements.

465 Seismic Design (4)

Prerequisites: CE 460 and CE 461 or CE 462. Earthquake and ground motion characteristics, structural response to support motions, lateral force resisting systems, determination of seismic forces, design of buildings for lateral loads.

467 Foundations I (4)

Prerequisite: CE 366. Site exploration, bearing capacity, slope stability, lateral earth pressure, types of foundations, footings, caissons, piles, retaining walls, and cofferdams.

471 Highway Engineering (4)

Prerequisites: CE 370, CE 202. Introduction to principles of highway design including route location, geometric of horizontal and vertical curves, earthwork computations, drainage designs; computer applications.

472 Highway and Airport Pavement Design (4)

Prerequisites: CE 368, 370. Theory and principles of pavement design for highways and airports; effects of soil characteristics and physical properties of basic materials; testing procedures. Grading ABC/NC.

473 Pavement Design Laboratory (1)

Prerequisite: CE 312. Basic tests performed in evaluation of treated and untreated bases, subbases, and subgrades necessary for pavement thickness design. Laboratory 3 hours.

474 Traffic Engineering (4)

Prerequisite: CE 370. Elements of traffic engineering; vehicle, driver, and road characteristics; capacity and flow determination; signalized intersections; parking and accident studies; street, freeway, and mass transit operations.

475 Advanced Surveying (4)

Prerequisite: CE 202. Advanced surveying, including triangulation, practical astronomy, and land and construction surveying. Lecture 2 hours, laboratory 6 hours.

483 Hydrology I (4)

Prerequisite: CE/ME 303. Precipitation, evaporation, infiltration, transpiration, and runoff; methods of predicting discharge from precipitation, flood routing, and measurement of hydrologic processes.

484 Sewerage and Sewage Treatment (4)

Prerequisite: CE/ME 303. Sanitary and storm sewer systems, sewage treatment and disposal, stream sanitation, and treatment plant design.

485 Water Supply (4)

Prerequisite: CE/ME 303. Sources and collection of surface and ground water, distribution systems, water quality, water treatment plants, sedimentation, filtration, softening, and disinfection.

487 Design of Water Resources Systems (4)

Prerequisite: CE 303. Develops of water resources and demand of water, availability of water, storage and control structures, conveyance system, and drainage system.

495 Civil Engineering Design Project (4)

Planning and designing typical civil engineering project as encountered in practice; projects require integration and synthesis of acquired knowledge under given constraints. Lecture 2 hours, laboratory 6 hours.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with the sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Graduate Level Courses (CE)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses

560 Structural Mechanics III (4)

Prerequisite: CE 460. Column analogy, moment distribution applied to nonprismatic members, elastic energy method applied to arches and curved members, influence lines for indeterminate structures and secondary stresses.

561 Advanced Steel Design (4)

Prerequisites: CE 460, 461. Emphasis on LRFD method, Unsymmetrical bending and torsion of beams, composite beams, nonprismatic beams, plate girders, beam-columns, frames and connections.

562 Reinforced Concrete Design II (4)

Prerequisite: CE 462. Creep and plastic flow of concrete. Theory and practice of ultimate strength design. Prestressed concrete structures.

563 Matrix Computer Analysis of Structures (4)

Prerequisite: CE 460. Matrix methods applied to statically determinate and indeterminate structures, flexibility and stiffness methods, digital computer applications.

564 Numerical Methods in Structural Analysis (4)

Prerequisite: CE 460 or 402. Finite difference and finite-element methods for structures; free and forced vibrations; bending, buckling of beams and plates; special applications.

565 Dynamics of Structures (4)

Prerequisite: CE 460 or ME 414. Free vibrations, forced vibrations and transient response of structures and structural components having one and many degrees of freedom; damping and inelastic action, earthquakes and nuclear blasts; dynamic resistance of structures; limit design; design for dynamic loads.

566 Soil Mechanics II (4)

Prerequisite: CE 467. Stress and strain in soil mass, equilibrium and movement of soil water, soil consolidation, settlement, and soil strength.

567 Foundations II (4)

Prerequisite: CE 467. Earth-pressure problems and problems of deep excavation; design of anchored bulkheads, cofferdams, piles under lateral loads, underpinning.

569 Earth Structures (4)

Prerequisite: CE 467. Factors influencing design, explorations for foundations and construction processes, compactions, stability analysis, seepage control, earth dams.

570 Soil Dynamics (4)

Prerequisite: CE 467. Dynamic properties of soils, vibratory effects on foundations, earthquake effects on foundations, dynamic stability of earth structures.

571 Highway Design (4)

Prerequisite: CE 471. Practical application of American Association of State Highway and Transportation Officials (AASHTO) policy on design controls; capacity analysis for uninterrupted flow, weaving section and ramps; functional design procedures in development of an interchange.

572 Plates and Shells (4)

Prerequisites: CE 402, 460. Equations of bending of thin elastic plates, energy method; approximate and numerical methods; theory of shells with application to tanks, roofs, and pressure vessels.

574 Traffic Flow Analysis (4)

Prerequisite: CE 370. Measurements and analysis of traffic flow characteristics: speed, density, flow, headway; statistical data analysis, time-space diagrams, traffic flow models, queuing theory, shock wave analysis, traffic models applications.

575 Urban Transportation Planning (4)

Prerequisite: CE 370. Travel forecasting, data requirements, collection methods, trip generation and distribution models; modal split analysis, trip assignment, plan alternatives, and evaluation methodology.

577 Bridge Engineering (4)

Prerequisites: CE 461, 462. Design of steel, concrete, and timber bridges, piers, and abutments; American Association of State Highway and Transportation Officials (AASHTO) specifications; criteria for earthquake resistant design of bridges; geometry, safety, economics, and aesthetics.

581 Modeling Techniques in Hydraulic Engineering (4)

Prerequisite: CE/ME 303. Dimensional analysis: similarity law and hydraulic, coastal, and estuarine models; mathematical models.

582 Statistical Hydrology (4)

Prerequisites: CE 483, ENGR 210, 211. Statistical and probability analysis of hydrologic processes. Application of correlation and regression method to hydrologic variables. Elementary time series analysis of hydrologic data.

583 Hydrology II (4)

Prerequisite: CE 483. Space-time characteristics and mechanics of rainfall, surface run-off and infiltration. Theory of drainage basin dynamics. Low stream flow.

586 Open Channel Hydraulics (4)

Prerequisites: CE 387, MATH 215. Flow types, flow profile computations; design of channels and transition structures; unsteady flow.

587 Hydraulics II (4)

Prerequisite: CE 387. Unsteady flow in pipes, wave motion, sediment transportation, and coastal engineering.

588 Hydraulic Structures (4)

Prerequisite: CE 387. Hydraulic structures for impounding, conveying, and controlling water.

589 Coastal Engineering (4)

Prerequisite: CE 387. Fundamentals of water waves and their effects. Diffraction, reflection, and refraction; impulsively generated waves; effect of waves on coastal structures.

596 Comprehensive Examination (0)

Permission needed by department. Students who select the comprehensive examination (CE 596) should expect to take it the quarter they complete all course work on their program, and must comply with school and department requirements.

597 Graduate Research (1-5)

Prerequisites: Instructor consent to act as sponsor and departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Graded CR/ NC.

598 Graduate Directed Study (1-4)

Prerequisites: Instructor consent to act as sponsor and departmental approval. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit.

599 Thesis (1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as a sponsor and school approval of the topic prior to registration. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/ NC.

Department of

Communication Disorders

School of Health and Human Services

DEPARTMENT OFFICE

King Hall B106

Phone: (323) 343-4690

E-mail: mpeters@cslanet.calstatela.edu (for audiology)
loconno@calstatela.edu (for speech-language pathology)Website: http://www.calstatela.edu/dept/com_dis/index.htm

The Department of Communication Disorders is committed to providing opportunities for students to have an exciting and rewarding future - a future in an enriching career as a respected professional helping others. Academic programs are designed to teach clinical skills and abilities for diagnosing and treating many different types of speech, language and hearing impairments.

DEPARTMENT PROGRAMS: The Department of Communication Disorders offers a baccalaureate degree (designated as a pre-professional major) and a master's degree (designated as a professional major) in the areas of Speech-Language Pathology and Audiology. Students choose one of these areas at the master's level. Completion of the graduate degree meets the academic requirements for licensure from the California State Board of Medical Quality Assurance and for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association.

The Robert L. Douglass Speech-Language Clinic and Cal State L.A. Hearing Clinic are housed on the university campus and provide training facilities offering diagnostic and rehabilitative services.

ACCREDITATION: The graduate programs in Speech-Language Pathology and Audiology are accredited by the American Speech-Language-Hearing Association.

The Faculty

Professors: Theodore Bell, Edward Klein (*Chair*), Masako M. Matsuda, Patricia Savich

Associate Professors: Lisa C. O'Connor, Miles Peterson

Assistant Professors: Cari Saben

Adjunct Assistant Professor: Margaret H. Briggs

Emeriti: Robert L. Douglass, Mary W. Huber, Lorraine Monnin

Undergraduate Programs

Bachelor of Arts Degree in Communicative Disorders

The Bachelor of Arts degree in Communicative Disorders (or its equivalency in coursework and clinical practicum) must be completed by all students planning to concentrate at the graduate level in either audiology or speech-language pathology. For options offered after completion of all requirements, including the clinical phase of the program, see the Graduate section below.

Students who have started the major at another campus or completed majors in other fields must consult with a department adviser before beginning the program.

Majors in Communicative Disorders must meet personal and professional standards established by the department which include, but are not limited to, the following: acceptable speech, language and hearing; the capacity to accept instruction; willingness to assume professional responsibility for the welfare of clients; and the ability to relate well to clients, peers and faculty. Students must also possess qualities of personal integrity, maturity, and sound professional judgment.

Credential Information:

Students planning to meet the requirements for the Clinical Rehabilitative Services credential should include the following courses as electives: EDCI 300A, EDFN 413, EDSP 400 and EDSP 403.

In order to qualify for the credential, COMD 480 (Directed Teaching in Communicative Disorders) and COMD 490AB (Language, Speech and Hearing Services in the Public Schools) must be completed.

An adviser should be consulted regarding the fulfillment of related course work for the credential as well as for professional licensure and certification requirements. The following G.E. courses will enrich the background of health care professionals and may be used to meet professional licensure and certification requirements:

ANTH 250, BIOL 155 OR 165, CHEM 158, CHS 111, MICR 151, PHYS 150, PSY 160, SOC 202, MATH 102, 103.

All students planning a major in communicative disorders must see a faculty adviser in the department before beginning the program.

There are two phases to the BA program: the preclinical and the clinical. Requirements for the clinical phase are discussed below.

Requirements for the Major (70 units)**Lower Division (3 units)**

COMD 160 Voice and Diction (3)

Upper Division (67 units)**Core Curriculum (27 units)**

COMD 400 Peripheral Hearing Mechanism (3)
 COMD 401 Audiological Acoustics (2)
 COMD 402 Introduction to Audiology (3)
 COMD 450 Introduction to Communication Disorders (4)
 COMD 460AB Speech and Language Acquisition Children (3, 3)
 COMD 461 Descriptive Phonetics (3)
 COMD 462AB Speech-Language Science (3, 3)

Students must earn a C or better in each of the core courses. Repetition of a core course is limited to a maximum of two attempts in the entire core. Students who receive two failing grades (D or F) in the core courses will be terminated from the major.

Preprofessional Courses (32 units)

COMD 300 Writing Skills in Communication Disorders (4)
 COMD 407 Pediatric Audiology (3)
 COMD 420 Rehabilitative Audiology (4)
 COMD 470 Clinical Processes in Communication Disorders (4)
 COMD 471 Language Disorders in Children (4)
 COMD 472 Voice and Articulation Disorders (4)
 COMD 476 Diagnostic Procedures in Communication Disorders (3)

Preprofessional Courses (cont'd)

COMD 477 Professional Practices and Clinical Management Strategies (2)

COMD 478AB Clinical Procedures in Communication Disorders (2, 2)

Related Courses (8 units)

COUN 405AB Theoretical and Developmental Aspects of Behavior (4, 4) or
 PSY 412AB Psychology of Human Development: Childhood and Adolescence (4,4)

Clinical Phase:

All entering preclinical students must complete all of the basic core with a C or better, and COMD 470, 471, 472 and 476 with a B or better in order to qualify for acceptance into the clinical phase of the program. The clinical phase consists of a management class (COMD 477) and both client contact courses (COMD 478AB).

Students must apply to the department for admission to the clinical phase. Application forms are available in the clinic office. Enrollment in clinical coursework is not permitted prior to admission to the clinical phase.

Should the student not fulfill the requirements for admission to the clinical phase of the program, COMD 454 or 458 may be substituted for COMD 478AB and an approved elective may be substituted for COMD 477 in order to receive the Bachelor of Arts degree.

Certificate Program

The department offers course work acceptable toward fulfillment of requirements for the interdisciplinary credit certificate in Child Maltreatment and Family Violence offered by the School of Health and Human Services.

Graduate and Postbaccalaureate Programs**Master Of Arts****Degree in Communicative Disorders****Admission to the Program**

In addition to University requirements for admission to graduate study, applicants must satisfy specific The Department of Communication Disorders offers the Master of Arts degree in Communicative Disorders with options in Audiology and Speech-Language Pathology; the Clinical-Rehabilitative Services Credential in Audiology; the Clinical-Rehabilitative Services Credential in Language, Speech, and Hearing; the Clinical-Rehabilitative Services Credential in Language, Speech, and Hearing with Special Class Authorization; and the Certificate in Rehabilitative/School Audiology department requirements before admission to the program.

Audiology Option

- Completion of a baccalaureate degree in communicative disorders or equivalent;
- A minimum of 2.75 GPA in the last 90 quarter units and a 3.0 GPA in all prerequisite audiology courses;
- A recent GRE with a minimum cumulative score of 900 on the verbal and quantitative sections,
- Departmental application form approved by the faculty.

Speech-Language Pathology Option

- Completion of baccalaureate degree in communicative disorders or equivalent;

- A minimum of 2.75 GPA in the last 90 quarter units and a 3.0 GPA in the major,
- Satisfactory GRE results;
- Departmental application form approved by the faculty.
- Completion of COMD 458 or equivalent is required. Must meet with a faculty adviser before beginning the graduate program.

Both Options

Completion of the following courses or their equivalents is a prerequisite to admission to the program: COMD 400, 401, 402, 407, 420, 450, 458, 460AB, 461, 462, 470–478AB.

Students who meet the equivalency requirements must earn, or have earned, a grade of C or higher in each of the core courses: COMD 400, 401, 402, 450, 460AB, 461, and 462. Repetition of core courses is limited to a maximum of two attempts in the entire core.

Students are required to meet personal and professional standards established by the department which include (but are not limited to): acceptable speech, language, and hearing; the capacity to accept instruction; willingness to assume professional responsibility for the welfare of clients; and the ability to relate well to clients, peers, and faculty. Students also must possess qualities of personal integrity, maturity, and sound professional judgment.

Students must earn a grade of B or better in COMD 478A and B, Clinical Practica, in order to be eligible to matriculate to classified standing.

Requirements for the Degree (minimum 45 units)

A minimum of 45 units is required, with at least 33-35 in 500-level courses. A comprehensive examination or a thesis is required.

Audiology Option (45 units)

The Audiology option prepares students to serve in various professional settings including:

- Clinical settings such as hospitals, medical offices, private practice, rehabilitation clinics that require a master's degree or equivalent with emphasis in clinical Audiology, licensure in Audiology issued by the state Board of Medical Quality Assurance, and the Certificate of Clinical Competence (CCC) in Audiology issued by the American Speech-Language-Hearing Association.
- Public school settings as a rehabilitative/school audiologist which requires a Clinical Rehabilitative Services credential for School Audiologist
- Private school settings as a rehabilitative audiologist which requires a certificate in rehabilitative Audiology plus a master's degree or equivalent in rehabilitative Audiology

Required Courses (33 units)

COMD 500	Seminar: Amplification Systems for Audiologists (4)
COMD 503	Seminar: Bone Conduction, Masking, Immittance Measurements (4)
COMD 504	Seminar: Audiological Psychoacoustics (4)
COMD 505	Seminar: Special Auditory Tests (4)
COMD 507	Seminar: Brainstem Evoked Response Audiometry (4)
COMD 510	Seminar: Audiological Instrumentation (4)
COMD 541	Clinical Procedures in Hearing Evaluation (1)
COMD 542	Clinical Practice in Hearing Evaluation (2, 2, 2, 2)

Electives (6-12 units)

COMD 501	Seminar: Advanced Amplification Systems for Audiologists (4)
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With adviser approval, select other courses appropriate for California licensure and ASHA certification.

Comprehensive Examination or Thesis (0, 6 units)

COMD 596	Comprehensive Examination (0) or
COMD 599	Thesis (6)

In conference with an adviser, students must elect to complete either the comprehensive examination or a thesis.

A. Comprehensive Examination (0)

COMD 596 Comprehensive Examination (0)
Students should expect to take the comprehensive examination (COMD 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

B. Thesis (6 units)

Students must have adviser approval, be advanced to candidacy, and be enrolled in COMD 599 during the quarters the thesis is in progress. COMD 599 units may be substituted for elective units, but not for required courses in audiology.

Speech-Language Pathology Option (minimum 45 units)

The Speech-Language Pathology option prepares students to work in various professional settings including:

- Clinics, hospitals, medical offices, or private practice as a speech-language pathologist which requires a master's degree or equivalent with emphasis in speech-language pathology, licensure in speech-language pathology issued by the state Board of Medical Quality Assurance, and the Certificate of Clinical Competence (CCC) issued by the American Speech-Language Hearing Association.
- Public and private schools as a language-speech and hearing specialist which requires a Clinical-Rehabilitative Services credential in Language, Speech, and Hearing.
- Public school programs for the severely language handicapped which requires a Clinical-Rehabilitative Services credential in Language, Speech, and Hearing with Special Class Authorization.

Required Courses (35 units)

COMD 560	Seminar: Natural Acquisition of Language (4)
COMD 570	Seminar: Fluency Disorders (4)
COMD 571	Seminar: Language Disorders in Children (4)
COMD 572	Seminar: Voice Disorders (4)
COMD 573	Seminar: Articulation and Phonological Disorders (4)
COMD 574AB	Seminar: Neuropathologies of Communication Disorders & Concomitant Problems (4, 4)
COMD 576	Advanced Diagnostic Procedures in Communication Disorders (3)
COMD 578	Advanced Clinical Procedures in Communication Disorders (2, 2)

COMD 572 and 574AB must be completed by the student with a grade B or better in each course in order to qualify for acceptance to COMD 576 and 578.

Students must receive a B or better in COMD 576 and in each quarter of 578 or the courses must be repeated.

Directed Electives (4–10 units)

With Adviser approval, complete 4-10 units of elective coursework from the following: COMD 453, 454L, 457, 475 or 585.

Comprehensive Examination or Thesis (0, 6 units)

COMD 596	Comprehensive Examination (0) or
COMD 599	Thesis (1-6)

Students should expect to take the comprehensive examination (COMD 596) the quarter after they complete all seminars on their program and must comply with school and departmental requirements. All required seminars in the program must have been completed within the program must have been completed within the previous three years prior to taking the comprehensive examinations. Students may take the comprehensive examinations prior to completion of off-campus clinics (COMD 578). Students should consult a speech-language pathology adviser about the thesis option, and should enroll in COMD 599 during the quarters the thesis is being undertaken.

Clinical-Rehabilitative Services Credential in Audiology Requirements for the Credential (101 units)

COMD 400	Peripheral Hearing Mechanism (3)
COMD 401	Audiological Acoustics (2)
COMD 402	Introduction to Audiology (3)
COMD 407	Pediatric Audiology (3)
COMD 420	Rehabilitative Audiology (3)
COMD 450	Introduction to Communication

COMD 460AB	Speech and Language Acquisition in Children (3, 3)	COMD 560	Seminar: Natural Acquisition of Language (4)
COMD 461	Descriptive Phonetics (3)	COMD 570	Seminar: Fluency Disorders (4)
COMD 462AB	Speech-Language Science (3,3)	COMD 571	Seminar: Language Disorders in Children (4)
COMD 470	Clinical Processes in Communication Disorders (4)	COMD 572	Seminar: Voice Disorders (4)
COMD 471	Language Disorders in Children (4)	COMD 573	Seminar: Articulation and Phonological Disorders (4)
COMD 472	Voice and Articulation Disorders (4)	COMD 574AB	Seminar: Neuropathologies of Communication Disorders & Concomitant Problems (4, 4)
COMD 476	Diagnostic Procedures in Communication Disorders (3)	COMD 576	Advanced Diagnostic Procedures in Communication Disorders (3)
COMD 477	Professional Practice and Clinical Management Strategies (2)	COMD 578	Advanced Clinical Procedures in Communication Disorders (2, 2)
COMD 500	Seminar: Amplification Systems for Audiologists (4)	COMD 596	Comprehensive Examination (0) or
COMD 503	Seminar: Bone Conduction, Masking, Immittance Measurements (4)	COMD 599	Thesis (6) or Equivalency of M.A. Degree as defined above
COMD 504	Seminar: Audiological Psychoacoustics (4)	EDCI 300A	The Teaching Profession: Education as a Career (1)
COMD 505	Seminar: Special Auditory Tests (4)	EDFN 413	Psychological Foundations of Education (4)
COMD 507	Seminar: Brainstem Evoked Response Audiometry (4)	EDSP 400	Foundations of Special Education (4)
COMD 510	Seminar: Audiological Instrumentation (4)	PSY 412AB	Psychology of Human Development: Childhood and Adolescence (4, 4)
COMD 530	Seminar: Audiology (3)		
COMD 541	Clinical Procedures in Hearing Evaluation (1)		
COMD 542	Clinical Practice in Hearing Evaluation(2, 2, 2, 2,2)		
EDCI 300A	The Teaching Profession: Education as a Career (1)		
EDSP 400	Foundations of Special Education (4)		
EDSP 420	Implications of Communication Handicaps (4)		
EDSP 430	Sign Language (3)		
EDSP 431A	Laboratory: Sign Language, Beginning (1)		

*Students may petition to substitute COMD 489 for the second quarter of COMD 480. (Consult departmental guidelines for specific details.)

****COMD 490 must be taken concurrently with the first quarter of COMD 480.**

	The Special Class Authorization to Teach Severe Language Handicapped Children requires an additional 21 units:
COMD 489	Demonstration of Instructional Competencies (6)
COMD 585	Seminar: Curriculum Consideration in Service Delivery (4)
EDEL 400	Proseminar: Curriculum and Teaching of Reading/Language Arts (4)
EDEL 401	Proseminar: Curriculum and Teaching of Mathematics (3)
EDSP 409	Assessment, Strategies, and Curricular Modification for Individuals with Exceptional Needs in Diverse Educational Settings (4)

Clinical Rehabilitative Services Credential in Language, Speech, and Hearing

This credential requires 120-126 units which includes the M.A. and the required credential courses listed below. Forty-five (45) units must be completed in the fifth year, including the 500-level courses listed below. Students must earn at least a *B* (3.0) grade point average in all 500-level courses required for the credential to receive university recommendation for issuance of the credential.

Requirements for the Credential (120-126 units)

COMD 400	Peripheral Hearing Mechanism (3)
COMD 401	Audiological Acoustics (2)
COMD 402	Introduction to Audiology (3)
COMD 407	Pediatric Audiology (3)
COMD 420	Rehabilitative Audiology (3)
COMD 450	Introduction to Communication Disorders (4)
COMD 460AB	Speech and Language Acquisition in Children (3, 3)
COMD 461	Descriptive Phonetics (3)
COMD 462AB	Speech-Language Science (3-3)

Requirements for the Credential (cont'd)

COMD 470	Clinical Processes in Communication Disorders (4)
COMD 471	Language Disorders in Children (4)
COMD 472	Voice and Articulation Disorders (4)
COMD 476	Diagnostic Procedures in Communication Disorders (3)
COMD 477	Professional Practices and Clinical Management Strategies (2)
COMD 478AB	Clinical Procedures in Communication Disorders (2, 2)
*COMD 480	Directed Teaching in Communication Disorders (6, 6)
**COMD 490	Language, Speech, and Hearing Service in Public Schools (1, 1)

Certificate Program in Rehabilitative/School Audiology

This credit certificate program is designed to prepare rehabilitative/school audiologists who do not seek the California credential.

Admission to the Program

Formal admission to the program is obtained only at the graduate level, although students may complete 400-level courses in the program while in undergraduate standing. Requirements for admission are the same as those for the Audiology option for the Master of Arts degree in Communicative Disorders.

Requirements of the Program (114 units)

This program requires a total of 114 units and utilizes the same courses as the Clinical-Rehabilitative Services credential in Audiology, described on the previous page. Students are cautioned to read descriptions of all required courses for prerequisites and to complete such prerequisites before enrolling in advanced courses.

List of Courses (COMD) - Undergraduate Level

Lower Division Courses

150 Introduction to American Sign Language (4)

Introduction to the American Sign Language organized gesture system including the deaf culture, visual signs, development of basic conversational skills, grammatical structure and principles underlying ASL. **GE C4**

160 Voice and Diction (3)

Essentials of normal speech with training in voice production, articulation, pronunciation, projection, and related oral skills.

Upper Division Courses

300 Writing Skills in Communication Disorders (4)

Prerequisite: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Corequisites: COMD 470, 471, or 472. Technical writing for the audiologist and speech-language pathologist.

309 Human Violence and Individual Change (4) (also listed as PSY 309)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block D. Examination of theories, research and practices for accomplishing individual change; application of models of change to alter violent or counter productive behaviors and attitudes; improving human interaction, and reducing violence/abuse. **GE Theme B**

400-Level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

400 Peripheral Hearing Mechanism (3)

Anatomy, physiology, and pathology of peripheral hearing mechanism, including theories of hearing and introduction to central auditory nervous system.

401 Audiological Acoustics (2)

Acoustical characteristics of sound, decibel notation as the unit of measurement for signal intensity, characteristics and calibration of portable pure-tone audiometers, measurement of ambient noise in test rooms.

402 Introduction to Audiology (3)

Prerequisite: Upper division standing. Introduction to the basic diagnostic audiological battery of tests, including pure-tone and speech audiometry; introduction to management of the hearing impaired; identification audiometry.

407 Pediatric Audiology (3)

Prerequisites: COMD 400, 401, 402, 460AB, 461. Theories, principles, and methods of assessing hearing of preschool children; hearing disorders unique to children; differential diagnosis; case management.

420 Rehabilitative Audiology (3)

Prerequisites: COMD 400, 401, 402. Issues concerning hearing-impaired adults and children: speech reading, hearing-aid use, counseling for adults, assessment and remediation of speech and language skills, auditory training, educational placement for children.

440 School Audiometry for Nurses (4)

Prerequisite: Public Health Nurse or School Nurse Credential Candidate. Anatomy, physiology, pathology of ear; acoustics of sound and instrumentation; school hearing conservation program; pure tone screening and audiometric testing, including audiogram interpretation and immittance testing.

450 Introduction to Communication Disorders (4)

Introduction to causes, characteristics, and remediation of common communication disorders, focusing primarily on children. Designed for majors in related fields and as a beginning course for Communicative Disorders majors.

452 Communication Disorders of the Neurologically Handicapped and Nonverbal Child (3)

Prerequisite: COMD 450. Sensorimotor, cognitive, symbolic dysfunctions affecting speech-language of neurologically handicapped child, including cerebral palsied; habilitation in educational and clinical settings; alternate means of communication for the nonverbal child.

453 Dysphagia Treatment (4)

Prerequisites: COMD 462A, 462B. Evaluation and treatment of swallowing disorders including those associated with neurological and oncological problems in children and adults.

454L,P Selected Topics in Communication Disorders (1-4)

Prerequisite: Varies with topic. Current issues and interests of students in communication disorders and related disciplines as announced in *Schedule of Classes*. May be repeated for 12 units of credit as subject matter changes.

455 Natural Processes of First Language Acquisition (4)

Theories and principles of first language acquisition from infancy through adolescence including structures and role of language; social, cognitive, and cultural factors related to language development; and language evaluation procedures.

456 Development of Verbal Behavior in Childhood (4)

Acquisition of language forms and speech behavior; sequence of language/speech functions and cognitive/social development in preschool years; multiethnic and multicultural considerations.

457 Communicating with Abused Children and Violent Families (4)

Maltreatment and children's communication development/dysfunction relative to social-emotional and cognitive development; communication demands in judicial, legal, and intervention processes; principles for interacting with and interviewing maltreated children.

458 Research Methods in Communication Disorders (4)

Prerequisites: Upper division standing, COMD 300, 450. Methods of scientific inquiry in communication disorders including an overview of statistical procedures, basic research design, evaluating clinical data, and critiquing published clinical research.

459 Communication Intervention for Infants and Toddlers (4)

Prerequisites: COMD 450, 460A. Assessment and intervention techniques utilized for communicatively at-risk infants and toddlers; emphasizes working in multidisciplinary team setting with families; includes observations.

460A Speech and Language Acquisition in Children (3)

Acquisition of language in children from birth to two years, including syntax, phonology, semantics, and pragmatics; genetic and environmental variables; multiethnic, multicultural considerations.

460B Speech and Language Acquisition in Children (3)

Prerequisite: COMD 460A. Continuing study of language acquisition in children from two years to school age, including syntax, phonology, semantics, and pragmatics; genetic and environmental variables, multiethnic, multicultural considerations.

461 Descriptive Phonetics (3)

Prerequisite: Upper division standing or consent of instructor. Phonetic-phonemic analysis of language; study of physical and physiological bases of speech.

462A Speech-Language Science: The Speech Mechanism (3)

Prerequisite: Upper division standing or consent of instructor. Anatomy and physiology of body structures employed in speech production with emphasis on phonation, resonance and articulation.

462B Speech-Language Science: The Nervous System (3)

Prerequisite: COMD 462A. Anatomy and physiology of the human nervous system related to speech and language.

470 Clinical Processes in Communication Disorders (4)

Prerequisites: COMD 450, 460A. Examination of therapy as a logical process of problem solving. Includes collection and structuring of information, development of hypotheses, designing appropriate individual goals.

471 Language Disorders in Children (4)

Prerequisites: COMD 450, 460AB, 461, 462. Etiology and differential characteristics of language disorders in children, assessment considerations and strategies for intervention with mildly handicapped and severely handicapped populations.

472 Voice and Articulation Disorders (4)

Prerequisites: COMD 450, 460AB, 461, 462. Etiology and differential characteristics of language disorders in children, assessment considerations and strategies for intervention with mildly handicapped populations.

475 Cultural/Linguistic Diversity in Communication Disorders (4)

Prerequisites: COMD 460AB and concurrent enrollment in or completion of COMD 478AB or the equivalent. Theoretical considerations and application of current research in cultural/linguistic diversity and second language acquisition in the assessment and therapy of multilingual children and adults with speech-language disorders.

476 Diagnostic Procedures in Communication Disorders (3)

Prerequisites (*may not be taken concurrently*): All following COMD core courses, each with a minimum C grade: COMD 402, 470, 471, 472; passing WPE score; COMD 300; approved application submitted quarter preceding enrollment in course. Procedures for studying and evaluating characteristics of communication handicapped persons; multiethnic, multicultural considerations. Lecture 2 hours, laboratory 3 hours. May be repeated once for credit.

477 Professional Practices and Clinical Management Strategies (2)

Prerequisites: All core courses plus COMD 470, 471, 472, and 476. Legal and ethical considerations as well as requirements for practice in various work settings; principles and procedures for management of individuals with communicative disorders, with consideration for cultural and linguistic variations.

478AB Clinical Procedures in Communication Disorders (2, 2)

Prerequisites: COMD 476 (*may not be taken concurrently*); approved application submitted quarter preceding enrollment in course; grade of C or better in all COMD courses taken prior to admission to clinic; satisfaction of departmental standards. Supervised clinical experience with communicatively handicapped children and adults. Satisfactory completion of two consecutive quarters is required.

480 Directed Teaching in Communication Disorders (6)

Prerequisites: EDCI 300A, directed teaching requirements, approval of COMD faculty. Supervised practicum in diagnosis and treatment of speech, language, and hearing disorders in public school itinerant sites and public school severe language disorders classes. Graded CR/NC only.

489 Demonstration of Instructional Competencies (6)

Prerequisites: Successful completion of one quarter of COMD 480 and COMD 490 and/or approval by appropriate department committee. Demonstration of competence in instructional skills leading to completion of either 1) the Clinical Rehabilitative Services Credential in Language, Speech and Hearing or 2) the Clinical Rehabilitative Services Credential in Language, Speech and Hearing with Special Class Authorization. Graded CR/NC.

490 Language, Speech, and Hearing Services in the Public Schools (1)

Corequisite: Must be taken concurrently with one quarter of COMD 480. Role of language, speech, and hearing specialist; implementation of appropriate techniques and procedures for the public school setting.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly and final report submitted. May be repeated for 6 units of credit.

Graduate Level Courses (COMD)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

500 Seminar: Amplification Systems for Audiologists (4)

Prerequisites: COMD 400, 401, 402, 420. Electroacoustic characteristics of individual hearing aids and classroom amplification systems; assessment and fitting procedures; spectral analysis of hearing aids; troubleshooting hearing aids; room acoustics; practical experience included.

501 Seminar: Advanced Amplification Systems for Audiologists (4)

Prerequisite: COMD 500. Advanced amplification devices and fitting procedures; practical experiences in real-ear measurements and programmable hearing aids.

503 Seminar: Bone Conduction, Masking, Immittance Measurements (4)

Prerequisites: COMD 400, 401, 402. Advanced audiological theories, principles, and techniques; bone-conduction, effective masking, and immittance measurements for differentiating conductive from sensorineural hearing losses; laboratory projects included.

504 Seminar: Audiological Psychoacoustics (4)

Prerequisites: COMD 400, 401, 402. Relationships among acoustic stimulus parameters, aural physiological activities, and psychological sensations including loudness, pitch, adaptation, and different limens; laboratory projects with audiometric equipment included.

505 Seminar: Special Auditory Tests (4)

Prerequisite: COMD 503. Advanced audiological theories, principles, and techniques; psychoacoustic hearing tests for differentiating cochlear from retrocochlear lesions; practice in administering special tests and interpreting test results.

507 Seminar: Brainstem Evoked Response Audiometry (4)

Prerequisite: COMD 504. Advanced audiological theories, principles, techniques; physiological tests for measuring electric brainstem responses to acoustic stimuli; electronystagmyography; practice with brainstem audiometer and ENG equipment.

510 Seminar: Audiological Instrumentation (4)

Prerequisites: COMD 400, 401, 402. Audiological instrumentation; calibration standards; calibration instruments and procedures for earphones, bone vibrators, loudspeakers, pure tones, speech, masking noise; practice in calibrating audiometers.

530 Seminar: Audiology (3)

Prerequisites: COMD 400, 401, 402, 407, & 420. Current topics in diagnostic and rehabilitative audiology. Different topics every year. May be repeated to maximum of 6 units.

541 Clinical Procedures in Hearing Evaluation (1)

Prerequisites: COMD 400, 401, 402. Practice in administering hearing tests, interpreting test results, and writing audiological reports before working with patients in the Hearing Clinics.

542 Clinical Practicum in Hearing Evaluation (2)

Prerequisites: first quarter: COMD 541, 503; second quarter: COMD 407, 500, one quarter of COMD 542; third quarter: COMD 505, 501, two quarters of COMD 542, minimum *B* (3.0) grade point average in COMD 542; fourth quarter COMD 507, three quarters of COMD 542; fifth quarter for school audiology credential: four quarters of COMD 542. Sequential progression of supervised clinical practice in hearing evaluations; on-campus Hearing Clinic for first two quarters; off-campus medical center for third and fourth quarters; public school for fifth quarter.

560 Seminar: Natural Acquisition of Language (4)

Prerequisites: COMD 460AB or 456. Research, methods, major issues in language acquisition in early childhood; methods for studying semantic, syntactic, pragmatic, and phonological systems, principally among English-speaking children.

570 Seminar: Fluency Disorders (4)

Prerequisite: COMD 470. Theory, research, and methodology in assessment and treatment of various fluency disorders including stuttering in children and adults.

571 Seminar: Language Disorders of Children (4)

Prerequisites: COMD 470, 471. Theory, research, and methodology in assessment of and intervention in various kinds of language disorders in children; multiethnic, multicultural considerations.

572 Seminar: Voice Disorders (4)

Prerequisite: COMD 472. Theory, research, methodology in diagnosis and treatment of various kinds of functional and organic voice disorders.

573 Seminar: Articulation and Phonological Disorders (4)

Prerequisite: COMD 472. Theory, research, methodology in assessing and intervening in various kinds of articulation and phonological disorders.

574AB Seminar: Neuropathologies of Communication Disorders and Concomitant Problems (4, 4)

Prerequisite: COMD 462. Theory, research, and methodology in diagnosis and treatment of various kinds of communication disorders associated with neuropathologies and concomitant problems.

576 Advanced Diagnostic Procedures in Communication Disorders (3)

Prerequisites: COMD 476, COMD 572, COMD 574AB with a B or better grade in each. Tests, methods, and procedures used in assessing individuals with speech-language disorders with special emphasis on integration of results in case studies; multiethnic, multicultural considerations. Independent supervised advanced clinical practicum. Lecture 2 hours, laboratory 3 hours.

578 Advanced Clinical Procedures in Communication Disorders (2)

Prerequisite: COMD 478AB. Advanced clinical procedures in assessment of and intervention with communicatively handicapped children and adults; independent supervised clinical experience in on or off-campus sites. May be repeated to maximum of 8 units.

585 Seminar: Curriculum Consideration in Service Delivery (4)

Prerequisites: COMD 560, COMD 571, and COMD 573. In depth study of speech language skills needed for social and academic success. Application of current principles, methods and materials for assessing and remediating speech and language deficits using a curricular-based approach.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599 Thesis (1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic before registration; additional prerequisites for Audiology option: COMD 547. Independent research resulting in a thesis; oral defense of thesis required. May be repeated to maximum of 6 units. Graded CR/NC.

Department of**Communication Studies**

School of Arts and Letters

DEPARTMENT OFFICE

Music 104

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Website: www.calstatela.edu/academic.comstud/

The Department of Communication Studies offers undergraduate programs leading to Bachelor of Arts degrees in Radio and Television Broadcasting and in Speech Communication and a minor in Speech Communication. It also offers graduate programs leading to the Master of Arts degrees in Communication Studies and in Telecommunications and Film, which are described following the undergraduate programs.

The Faculty

Professors: Beryl L. Bellman, Alan J. Bloom, Judith Hamera (Chair), W. Keith Henning, Michael P. Kelley, Suzanne E. Regan, Robert Vianello.

Associate Professors: *Laura Chey Acuña, Kevin Baaske, Ivan N. Cury, John J. Ramirez.*

Assistant Professors: Bryant Alexander, Mohammad Auwal, Chunsheng Bai, Enrique Berumen, Lena Chao, Kelly Madison, David Olsen.

Emeriti: *Robert E. Blackmon, Irvin Borders, Anthony Hillbruner, Robert D. Kully.*

Undergraduate Programs**Bachelor of Arts Degree in
Radio and Television Broadcasting**

The program leading to the Bachelor of Arts degree with a major in Radio and Television Broadcasting emphasizes both theoretical understanding and practical application of the mass media of communication in contemporary society. This major offers three interdisciplinary options: Animation, Broadcast Journalism, and Telecommunications and Film. It is the primary objective of our curriculum to help develop a knowledgeable and artistically skilled graduate who will be able to pursue an advanced degree and/or a professional career in radio, television, animation, cinema, and mass communication research. The program emphasizes the importance of the media's awareness of the multi-ethnic composition of society and its impact on all aspects of human interaction.

**Requirements for
the Major (88–98 units)**

Students should plan their programs with careful attention to prerequisites for upper division courses.

Core Requirements (28 units)**Lower Division Required Courses (20 units)**

- BCST 200 Introduction to Single Camera and Editing (4)
- BCST 201 Introduction to Television Studio Production (4)
- BCST 220 Introduction to Broadcasting (4)
- BCST 224 Survey of Film (4)
- BCST 265 Introduction to Scriptwriting (4)

Upper Division Required Courses (8 units)

- SPCH 300 Applied Writing in Speech Communication (4)
- BCST 420 Responsibility and Regulation in Broadcasting and Film (4)

Options**Animation Option (70 units)**

The Animation option provides a thorough education in the creative, practical and historical uses of animation. The option encourages an experimental approach to animation, combining traditional and contemporary techniques. Students complete a core of 30-34 units plus either the Traditional Animation or the Computer Animation Track for an additional 36-40 units. The elective courses within each of track allow the student to take courses in the other technique.

This option is offered jointly with the Art Department.

Option Core Requirements (30-34)**Lower Division, Core Requirements (10-14 units)**

- ART 159 Survey and Studio: Introduction to Drawing (4)
- ART 244 ABC Introduction to Life Composition (2,2,2)
- BCST 280 Animation History (4)

Upper Division, Core Requirements (20)

- ART 333 Color (4)
- BCST 378 Writing and Storyboarding for Animation (4)
- ART/BCST 498 Capstone Animation Project (4,4,4)

Traditional Animation Track (36-40 units)**Upper Division Track Requirements (12 units)**

- BCST 377 Introduction to Animation (4)
- BCST 381 Advanced Animation (4,4)

Upper Division Track Electives (24-28 units)

Select from the following

- ART 303 Three-Dimensional Design (4)
- ART 380 Computer Graphics I (4)
- ART 398 Cooperative Education (1-8)
- ART 414 Advanced Painting (4)
- ART 449 Video for Artists (4)
- ART 454L, P Special Topics in Art (1-9)

Upper Division Track Electives (cont'd)

- ART 480 Computer Graphics II (4)
 ART 494 Computer Graphics Animation (4)
 ART 496 Advanced Computer Animation (4)
 ART 499 Undergraduate Directed Study (1-8)
 BCST 303B Introduction to TV Digital Post Production (2)
 BCST 362 Film and Television Aesthetics (4)
 BCST 398 Cooperative Education (1-8)
 BCST 403B Advanced TV Digital Post Production (4)
 BCST 440 Noncommercial Broadcasting and Film (4)
 BCST 454 Selected Studies in Broadcasting (4-12)
 BCST 454L Selected Studies in Production (1-12)
 BCST 499 Undergraduate Directed Study (1-8)

Computer Animation Track (36-40 units)**Upper Division Track Requirements (16 units)**

- ART 380 Computer Graphics I (4)
 ART 480 Computer Graphics II (4)
 ART 494 Computer Animation (4)
 ART 496 Advanced Computer Animation (4)

Upper Division Track Electives (20-24 units)

Select from the following

- ART 303 Three-Dimensional Design (4)
 ART 398 Cooperative Education (1-8)
 ART 414 Advanced Painting (4)
 ART 449 Video for Artists (4)
 ART 454L,P Special Topics in Art (1-9)
 BCST 303B Introduction to Television Digital Post Production (2)
 BCST 362 Film and Television Aesthetics (4)
 BCST 377 Introduction to Animation (4)
 BCST 381 Advanced Animation (4,4)
 BCST 398 Cooperative Education (1-8)
 BCST 403B Advanced Television Digital Post Production (4)
 BCST 411 Children's Media (4)
 BCST 440 Non-commercial Broadcasting and Film (4)
 BCST 454 Selected Studies in Broadcasting (1-12)
 BCST 454L Selected Studies in Production (1-12)
 BCST 499 Undergraduate Directed Study (1-8)

Broadcast Journalism Option (60 units)**Lower Division Option Requirements (12 units)**

- BCST 249 Announcing (4)
 BCST 292 Introduction to News Writing and Reporting (4)
 SPCH 267 Introduction to Oral Interpretation (4)

Upper Division Option Requirements (40-44 units)

- BCST 301 Intermediate Television Studio Production (4)
 BCST 320 Audio Production (4)
 BCST 330 The Documentary in Broadcasting and Film (4)
 JOUR 391 University Times (4-8)
 BCST 430 Documentary Field Production (4)
 BCST 460 Theories of Mass Communication (4)
 BCST 475 Television News/Magazine Production (4, 4)
 BCST 480 New Media Technologies (4)
 JOUR 492 Radio and Television News Writing (4)

Electives (4-8 units)

Select from the following courses, or upper division courses in related fields, with adviser approval.

- BCST 303A Introduction to Digital Graphics for Film and Television (2)
 BCST 303B Introduction to Television Digital Post Production (2)
 BCST 328 Film History (4)
 BCST 354L Selected Studies in Production (1-8)
 BCST 362 Film and Television Aesthetics (4)

Electives (cont'd)

- BCST 370 Broadcasting and Film as Shapers of the Public Mind (4)
 JOUR 391 University Times (4-8)
 BCST 398 Cooperative Education (1-8)
 BCST 403A Advanced Graphics Digital Post Production (4)
 BCST 403B Advanced Television Digital Post Production (4)
 ENGL 406 Writing Nonfiction (4)
 BCST 424 Crosscultural Broadcasting and Film (4)
 BCST 440 Noncommercial Broadcasting and Film
 BCST 453 International Communication Media (4)
 BCST 454 Selected Studies in Broadcasting (4-12)
 BCST 454L Selected Studies in Production (4-12)
 BCST 470 Administration and Studio Operations in Broadcasting and Film (4)
 BCST 499 Undergraduate Directed Study (1-8)

Telecommunications and Film Option (60 units)**Upper Division General Option Requirements (16 units)**

Select from the following:

- BCST 301 Intermediate Television Studio Production (4)
 BCST 328 Film History (4)
 BCST 362 Film and Television Aesthetics (4)
 BCST 460 Theories of Mass Communication (4)
 BCST 462 Criticism of Film and Television (4)

Advanced Production Requirement (12-16 units)

Select from the following:

- BCST 320 Audio Production (4)
 BCST 365 Intermediate Scriptwriting (4)
 BCST 377 Introduction to Animation (4)
 BCST 397 Cinematography (4)
 BCST 401 Advanced Video Production (4)
 BCST 403A Advanced Digital Graphics for Film and Television (4)
 BCST 403B Advanced Television Digital Post Production (4)
 BCST 403C Advanced Film Digital Post Production (4)
 BCST 430 Documentary Field Production (4)
 BCST 454L Selected Studies in Production (4-12)
 BCST 465 Seminar: Advanced Scriptwriting (4-8)
 BCST 475 Television News/Magazine Production (4-8)
 BCST 497 Production Portfolio (4)

Critical Studies Requirement (12-16 units)

Select from the following:

- BCST 330 Documentary in Broadcasting and Film (4)
 BCST 370 Broadcasting and Film as Shapers of the Public Mind (4)
 BCST 410 Contemporary Radio Broadcasting (4)
 BCST 411 Children's Media (4)
 BCST 424 Crosscultural Broadcasting and Film (4)
 BCST 440 Noncommercial Broadcasting and Film (4)
 BCST 453 International Communication Media (4)
 BCST 454 Selected Studies in Broadcasting (4-12)
 BCST 470 Administration and Studio Operations in Broadcasting and Film (4)
 BCST 480 New Media Technologies (4)

Electives (8-16 units)

Select upper division courses in Broadcasting, which may include:

- BCST 303A Introduction to Digital Graphics for Film and Television (2)
 BCST 303B Introduction to Television Digital Post Production (2)
 BCST 303C Introduction to Film Digital Post Production (2)

Electives (cont'd)

BCST 354L Selected Studies in Production (1-8)
 BCST 398 Cooperative Education (1-8)
 BCST 499 Undergraduate Directed Study (1-8)
 or upper division courses in Broadcasting or related fields with
 adviser's approval.

Bachelor of Arts Degree in Speech Communication

The General Option within the Speech Communication major is available in four concentrations (Rhetoric, Performance Studies, Organizational Communication and Public Relations, Interpersonal/Language and Social Interaction), and a Single Subject Teaching Option in English.

All concentrations provide an understanding of the nature and functions of human symbolic communication. The scope of the program includes historical, philosophical, critical, cultural, and scientific approaches and methods and applies these to public discourse; interpersonal, small group and intercultural interactions; technologically mediated communication; aesthetic dimensions of speech and performance; and instructional development.

The Bachelor's Degree adds to the student's critical, methodological and presentational skills in dealing with a broad spectrum of communication contexts. It provides a foundation for careers in business, law, government service, health, the ministry, teaching, public relations, media communication, and other professions in which an understanding of and facility with the process of communication are essential.

Requirements for the Major (76–80 units)

The General Option for the major requires a common core of 52 units: 8 lower division and 36 upper division units, plus 8 lower division electives. In addition, each concentration within the General Option requires 24 units: 8 units of an upper division core and an additional 16 units of electives to complete the degree. The option for the Single Subject Credential in English has a separate 56-unit core and 24-unit breadth requirement.

Core Requirements for the General Option (52 units)

Rhetoric; Performance Studies; Organizational/Public Relations; and Interpersonal/Language and Social Interaction Concentrations.

Lower Division Required Course (8 units)

SPCH 130 Introduction to Human Communication (4)
 SPCH 176 Argumentation (4)

Electives (8 units):

Select at least two of the following:

SPCH 267 Introduction to Oral Interpretation (4)
 SPCH 268 Group Performance Practicum (2)
 SPCH 275 Interpersonal Communication (4)
 SPCH 276 Argumentation and Reasoned Advocacy (4)
 SPCH 277 Forensics (4)
 SPCH 278 Problem Solving through Group Discussion (4)
 SPCH 290 Mediated Communication (4)

Upper Division Required Courses (36 units)

SPCH 300 Applied Writing in Speech Communication (4)
 SPCH330 Organizational Studies (4)
 SPCH 367 Performance Studies (4)
 SPCH 380 Introduction to Rhetorical Studies (4)
 SPCH 450 Communication Theory (4)
 SPCH 477 Qualitative Methods in Communication (4)
 SPCH 478 Quantitative Methods in Communication (4)
 SPCH 489 Intercultural Communication (4)

Capstone Experience

Choose one of the following
 SPCH 452 Theory Construction (4)
 SPCH 454 Selected Studies in Speech Communication (4)
 SPCH 498 Research Project in Speech Communication (4)

Concentrations (24 units)

Select one of the following four concentrations. Each requires 2 core and 4 elective courses. No more than 8 units from outside the department may be used to substitute for concentration courses without advisor's approval.

A. Concentration in Rhetoric

Required Core (8 units)

SPCH 470 Theories of Rhetoric: Survey and Analysis (4)
 SPCH 485 Rhetorical Criticism (4)

Electives (16 units)

select four courses from the following:

SPCH 276 Argumentation and Reasoned Advocacy (4)
 SPCH 277 Forensics (4)
 SPCH 371 Persuasion (4)
 SPCH 377 Forensics (4)
 SPCH 454 Selected Studies in Speech Communication (4)
 SPCH/TA 467 Theories and Methods in Performance Studies (4)
 SPCH 471 Rhetoric and Religion (4)
 SPCH 473 Rhetoric of Social Controversy (4)
 SPCH 474 Public Discourse: International and National Perspectives (4)
 SPCH 475 Feminism and Communication Studies (4)
 SPCH 482 Contemporary Rhetorical Theory (4)
 SPCH 483 Campaign Communication (4)
 SPCH 484 Political Communication (4)
 SPCH 486 Communication and Cultural Studies (4)

B. Concentration in Performance Studies

Required Core (8 units)

SPCH/TA 467 Theories and Methods in Performance Studies (4)
 SPCH/TA 468 Performance and Social Change (4)

Electives (16 units)

Select four courses from the following:

SPCH 267 Introduction to Oral Interpretation (4)
 SPCH 268 Group Performance Practicum (4)
 SPCH 390 Technology and Human Interaction (4)
 SPCH 454 Selected Studies in Speech (4)
 SPCH 475 Feminism and Communication Studies (4)
 BCST 480 New Media Technologies (4)
 SPCH 482 Contemporary Theories of Rhetoric (4)
 SPCH 486 Communication and Cultural Studies (4)
 SPCH 490 Children's Speech Arts (4)
 SPCH 491 Instructional Theories in Communication (4)

C. Concentration in Organizational Communication and Public Relations

Required Core (8 units)

Select two of the following:

SPCH 396 Publicity and Promotions (4)
 SPCH 430 Dynamics of Organizational Communications (4)
 SPCH 435 Communication and Leadership (4)
 SPCH 497 Managing Problems in Public Relations (4)

Electives (16 units)

(select four of the following):

SPCH 278 Problem Solving through Group Discussion (4)
 SPCH 340 Interviewing (4)
 SPCH 370 Business and Professional Speaking (4)
 SPCH 371 Persuasion (4)
 SPCH 390 Technology and Human Interaction (4)

Electives (cont'd)

- SPCH 431 Internship in Organizational Communication (4)
 SPCH 436 Communication and the Diffusion of Innovation (4)
 SPCH 454 Selected Studies in Speech Communication (4)
 SPCH/MKT 459 Intercultural Business Communication (4)
 SPCH 475 Feminism and Communication Studies (4)
 BCST 480 New Media Technologies (4)
 SPCH 491 Instructional Theories in Communication (4)
 SPCH 492 Communication Training in Organizations (4)
 JOUR 492 Radio and Television Newswriting (4)
 SPCH 497 Managing Problems in Public Relations (4)

D. Concentration in Interpersonal Communication/Language and Social Interaction**Required Core (8 units)**

Select two of the following:

- SPCH 440 Relational Communication (4)
 SPCH 462 Nonverbal Communication (4)
 SPCH 463 Language and Communication Behavior (4)
 SPCH/TA 467 Theories and Methods in Performance Studies (4)

Electives (16 units)

Select four of the following:

- SPCH 275 Interpersonal Communication (4)
 SPCH 278 Problem Solving through Group Discussion (4)
 SPCH 290 Introduction to Mediated Communication (4)
 SPCH 340 Interviewing (4)
 SPCH 371 Persuasion (4)
 SPCH 390 Technology and Human Interaction (4)
 BCST 424 Crosscultural Broadcasting and Film (4)
 SPCH 430 Dynamics of Organizational Communications (4)
 SPCH 454 Selected Studies in Speech Communication (4)
 SPCH 475 Feminism and Communication Studies (4)
 SPCH 479 Sex Roles in Communication (4)
 SPCH 484 Political Communication (4)
 SPCH 486 Communication and Cultural Studies (4)
 SPCH 494 Communication Behavior and Early Childhood (4)

Single Subject Teaching Option (80 units)

The requirements listed below replace both the Core Requirements and the General Option requirement for the Bachelor of Arts in Speech Communication.

The Credential Option in Speech Communication is designed to qualify students for the Single Subject Credential in English. Interested students should consult the departmental credential advisor and the Charter School of Education.

Required Core (56 Units)**Composition (8 units)**

- ENGL 410 Writing in the Schools (4)
 SPCH 300 Applied Writing in Speech Communication (4)

Language, Linguistics, Theory and Criticism (8 units)

- SPCH 463 Language and Communication Behavior (4)
 SPCH 485 Writing in the Schools (4)

Literature (36 units)**Lower division required courses (8 units)**

- ENGL 200A The Classical and Medieval Tradition (4)

Select one from following (4 units):

- ENGL 200B British Literature Survey I (4)
 ENGL 200C British Literature Survey II (4)

Upper division required courses (28 units)

- ENGL 417 Shakespeare (4)
 ENGL 476 Ethnic Literature (4)

Select from following (8 units):

- ENGL 416, 418, 419, 446, 460, 461, 463, 464, 465

Select from following (4 units):

- ENGL 447, 467, 468

Select from following (8 units):

- ENGL 471, 472, 473

Capstone Experience (4 units)

- SPCH 491 Instructional Theories in Communication (4)

Breadth Requirements (24 Units)**Oral Interpretation and Tradition, Performance (4-12 units)****Required course (4 units)**

- SPCH 267 Oral Interpretation (4)

Choose from following (0-8 units):

- SPCH 268, 277 or 377, SPCH 367, 467

Film and Media Criticism, Production (4-12 units)**Required course (4 units)**

- BCST 224 Survey of Film (4)

Choose from following (0-8 units):

- BCST 201, 220, 328
 ENGL 451

Additional Courses in Language and Composition (0-8 units)

- SPCH 470 Rhetorical Theory (4)
 SPCH 489 Intercultural Communication (4)

Minor in Speech Communication

The Speech Communication minor is designed for students interested in expanding their knowledge of the communication process, especially as it relates to their professional careers or related fields in the liberal arts. The Speech Communication curriculum provides a variety of courses for students preparing for careers in community development, social services, health, safety, and recreation services, business and industry, criminal justice, law, education, industrial studies, mass media, and many others in which an understanding of the process and practice of communication is vital. A total of 32 units in SPCH is required.

Requirements for the Minor (32 units)**Required Courses (8 units)**

- SPCH 150 Oral Communication (4)
 SPCH 176 Argumentation (4)

Electives (24 units)

Select a program, in consultation with a departmental adviser, to meet the goals for which the minor is chosen. A minimum of 16 units must be taken in upper division courses.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Communication Studies

The Master of Arts degree program in Communication Studies is available in two options: the Telecommunications and Film option and the Speech Communication option. The Telecommunications and Film option is designed to enable students to acquire an understanding of research methods and theories that explore industry structure, audience reception, visual and structural examinations of the media text, and scriptwriting for film, television and documentary. The program requires that students select and develop an area of specialization. The option in Speech Communication is designed to enable students to acquire an understanding of research methods and theories that explore the nature and functions of human symbolic communication in the areas of communication and rhetorical theory, interpersonal and organizational communication, public discourse, intercultural communication, and performance studies.

Admission to the Program

In addition to University requirements for admission to graduate study, students must have a 3.00 grade point average. Applicants must submit a writing sample for review by department faculty.

Students whose undergraduate major was not Speech, Communication or Broadcasting must complete 30 units of undergraduate work in Speech Communication and related fields or in Telecommunications and Film and related fields, as approved by the graduate adviser for their program prior to beginning graduate work. The graduate adviser will assist students in designing a program suited to their individual interests and goals.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 24 in 500-level courses. Students may choose between two options: Telecommunications and Film or Speech Communication.

A minimum of 24 units in 500-level seminars is required. In addition to department graduate core requirements and graduate option core requirements, students must select a minimum of 8 units from 500-level seminars within their respective option.

Electives (7-13 or 8 units)

Select 400 or 500-level Speech Communication courses (7-13 units) or Broadcasting/Telecommunications and Film courses (3-9 units for the critical studies concentration or 8 units for the scriptwriting concentration) with adviser approval: a maximum of 8 of these units may be in related fields with approval of adviser and department chair.

Comprehensive Examination (0 units), Thesis (4-6 units) or Script Thesis (5-6 units)

Students should expect to take the comprehensive examination, COMS 596 (0), within two quarters of completing all course work and must comply with school and departmental requirements. The comprehensive examination is regularly scheduled for Monday and Tuesday of the ninth week of

instruction in the fall and Spring Quarters. Speech Communication students will complete examinations in communication theory, rhetorical theory, and an area of specialization selected in consultation with the graduate adviser. Telecommunications and Film students will complete examinations in critical methodology, media criticism, and an area of specialization selected in consultation with the graduate adviser. Students will be allowed a maximum of two attempts to complete the comprehensive examinations successfully. Failure to pass the comprehensive examinations, or any portion thereof, will result in disqualification from the program.

A thesis may be substituted for the comprehensive examination, with prior approval of the Speech Communication or Telecommunications and Film area, based on examination of the student's portfolio. Students in the scriptwriting concentration of the Telecommunications and Film option must obtain authorization for the script thesis. Students authorized to submit a thesis must enroll in COMS 599 Thesis (4-6) for a cumulative minimum of 4 units, or COMS 599S (5-6) for a cumulative minimum of 5 units.

Speech Communication Option (45 units)

Core Courses (16 units)

- COMS 500 Graduate Scholarship In Communication Studies (4)
- SPCH 550 Seminar: Communication Theory (4)
- SPCH 580 Seminar: Rhetoric Theory (4)
- COMS 590 Capstone Research Seminar (4)

Graduate Level Seminars (16 units)

With adviser approval, select a minimum of 16 additional units from the following 500-level seminars:

- SPCH 530 Seminar: Organizational Communication (4)
- SPCH 540 Seminar: Interpersonal Communication (4)
- COMS 554 Selected Topics in Communication Studies (4-8)
- SPCH 560 Seminar: Language and Communication Behavior (4)
- SPCH 562 Seminar: Theories of Mass Media (4)
- SPCH 567 Seminar: Theories of Oral Interpretation (4)
- SPCH 572 Seminar: International Public Discourse (4)
- SPCH 573 Seminar: American Public Address (4)
- SPCH 576 Seminar: Argumentation, Discussion, and Debate (4)
- SPCH 589 Seminar: Intercultural Communication (4)
- SPCH 590 Seminar: History of Speech Communication in America (4)
- SPCH 595 Graduate Performance (1-4)
- SPCH 598 Graduate Directed Study (1-4)

Electives (7-13 units)

Select 400-level BCST, 500-level COMS/SPCH courses with adviser approval; a maximum of 8 units may be in related fields with approval of adviser and department chair.

Comprehensive Examination or Thesis (0, 4-6 units)

- COMS 596 Comprehensive Examination (0 units) or
- COMS 599 Thesis (4-6)

Telecommunications and Film Option**Critical Studies Concentration (45 units)****Core Courses (20 units)**

- COMS 500 Graduate Scholarship in Communication Studies (4)
- COMS 501 Seminar: Research Methods in Telecommunications and Film Studies (4)
- COMS 505 Seminar: Critical Approaches to Television and Film (4)
- COMS 506 Seminar: Television Programming (4) or
- COMS 507 Seminar: Post WWII Film and Television History (4)
- COMS 590 Capstone Research Seminar (4)

Graduate Level Seminars (12 units)

With adviser approval, select a minimum of 12 additional units from the following 500-level seminars.

- COMS 510 Seminar: Narrative Studies in Television and Film (4)
- COMS 515 Seminar: Media, Culture, and Society (4)
- COMS 520 Seminar: Documentary Film and Television (4)
- COMS 554 Selected Topics in Communication Studies (4-8)
- SPCH 562 Seminar: Theories of Mass Media (4)
- COMS 564 Seminar: Adaptation (4)
- COMS 598 Graduate Directed Study (1-4)

Electives (7-13 units)

Select 400-level BCST, 500-level COMS/SPCH courses with adviser approval; a maximum of 8 units may be in related fields with approval of adviser and department chair.

Comprehensive Examination or Thesis (0, 4-6 units)

- COMS 596 Comprehensive Examination (0 units) or
- COMS 599 Thesis (4-6)

Scriptwriting Concentration (45-46 units)**Core Courses (20 units)**

- COMS 500 Graduate Scholarship in Communication Studies (4)
- COMS 501 Seminar: Research Methods in Telecommunication and Film Studies (4)
- COMS 505 Seminar: Critical Approaches to Television and Film (4)
- COMS 506 Seminar: Television Programming (4) or
- COMS 507 Seminar: Post WWII Film and Television History (4)
- COMS 590 Capstone Research Seminar (4)

Graduate Level Seminars (12 units)

Select two of the following seminars:

- COMS 565 Seminar: Feature Film Writing (4)
- COMS 566 Seminar: Narrative Television Writing (4)
- COMS 567 Seminar: Non-Fiction Writing (4)

Select one of the following seminars:

- COMS 510 Seminar: Narrative Studies in Television and Film (4)
- COMS 520 Seminar: Documentary Film and Television (4)
- COMS 564 Seminar: Adaptation (4)
- COMS 599S Script Thesis (5-6 units)

Electives (8 units)

Select 400-Level BCST, 500-Level COMS/SPCH courses with adviser approval; a maximum of 8 units may be in related fields with approval of adviser and department chair.

Script Thesis (5-6 units)

- COMS 599S Script Thesis (5-6)

List of Courses - Undergraduate Level**Courses in Broadcasting (BCST)****Lower Division Courses****200 Introduction to Single Camera and Editing (4)**

An introduction to fundamentals of single camera production. Topics include pre-production planning, camera operation, location lighting, sound, and editing. Lecture 3 hours, activity 2 hours.

201 Introduction to Television Studio Production (4)

Introduction to television production facilities, equipment and techniques. Principles of directing, camera, sound, control room operations. Lecture 3 hours, laboratory 2 hours.

**210 Body and Identity in Dance, Theater, Film (4)
(also listed as DANC and TA 210)**

The aesthetic bases of dance, theater and mass media will be established using the human body as core focus. Exploration of body representation as affected by culture, gender and class. **GE C2**

220 Introduction to Broadcasting (4)

Survey of principles and practices in American broadcasting with emphasis on techniques of radio and television programming through lectures, reports, and selected viewing.

224 Survey of Film (4)

Cinema as a creative communication medium, emphasizing certain perceptual, conceptual, and technical considerations.

**225 Interpreting World Cinema (4)
(also listed as ENGL 225)**

Critical survey of world cinema as art and cultural artifact. Provides critical methodology and practical tools for analyzing and interpreting international film movements, genres and themes. **GE C2**

240 Film, Novel, Theater (4)

(also listed as ENGL and TA 240)

Prerequisite: Completion of ENGL 101. An exploration of film, theater, and fiction through the process of adaptation. Analysis of the roles of audience, modes of delivery, concepts of form and structure, and cultural impact. **GE C5**

249 Announcing (4)

On-air techniques for reading and reporting radio and television news.

250 Media, Culture and Identity (4)

Explores the social construction of "racial," ethnic, gender, class, national and sexual identity, emphasizing the role of the mass media. Takes an historical, sociological, political and cultural/ideological approaches. **GE D**

265 Introduction to Scriptwriting (4)

Basic techniques of short subject dramatic screenplay structure and storytelling. Script development from story concept selection, character design, story treatment, plot and character development.

280 Animation History (4)

Survey course on the history of animation and its relationship to society and culture. Overview of well-known animators and landmark animated films. Lecture 4 hours.

292 Introduction to News Writing and Reporting (4)

Prerequisite: ENGL 102. Introduction to news writing and reporting. News sources, collection of news, acceptable forms for news stories, news reporting styles and journalism ethics.

Upper Division Courses**301 Intermediate Television Studio Production (4)**

Prerequisites: BCST 201 and either BCST 265 or instructor consent. Intermediate study of directing principles and production techniques as applied to educational, informational, and cultural program production. Lecture 3 hours, laboratory 2 hours.

303A Introduction to Digital Graphics for Film and Television (2)

Prerequisite: BCST 301. Lab-based workshop providing application and operational understanding of digital post production graphics. Elective credit only. Graded CR/ NC. Activity 4 hours.

303B Introduction to Television Digital Post Production (2)

Prerequisite: BCST 200, BCST 301. Lab-based workshop providing application and operational understanding of television digital post production. Elective credit only. Graded CR/ NC. Activity 4 hours.

303C Introduction to Film Digital Post Production (2)

Prerequisite: BCST 200, BCST 301. Lab-based workshop providing application and operational understanding of film digital post production. Elective credit only. Graded CR/ NC. Activity 4 hours.

320 Audio Production (4)

Prerequisite: BCST 220. Practicum in sound for radio, television and film. Lecture 3 hours, activity 2 hours.

324 Third Cinema/Video (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Survey and analysis of the cultural and textual politics of Third Cinema/ Video-film and video produced by and for developing countries and their Western diaspora communities. **GE Theme A**

328 Film History (4)

Prerequisite: BCST 224. Examination of significant historical events, persons and movements which have influenced the cultural and institutional development of motion pictures.

330 The Documentary in Broadcasting and Film (4)

Prerequisites: BCST 220, 224. Historical and critical study of documentary form in broadcasting and film using classic examples in radio, television, and motion pictures to assess

334 "Race", Justice and the Mass Media (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Examines racism in media institutions and representations. Emphasizes historical role of media in the social construction of "racial" identity, the legitimization and reproduction of racist domination, and resistance to racism. **GE Theme C**

354L Selected Studies in Broadcasting Production (1-4)

Prerequisite: BCST 301. Special application of audio and video production and post production technologies. Variable topics. May be repeated to maximum of 12 elective units as subject matter changes. Graded CR/NC.

362 Film and Television Aesthetics (4)

Prerequisites: BCST 220, 328. Film and television aesthetics, analyzing component elements of light, space, time, sound, music, and motion in synthesized image.

365 Intermediate Scriptwriting (4)

Prerequisites: BCST 201, 265. Techniques of feature film writing, script story theory, structure and analysis. Lecture and workshop-based, computer-assisted feature script development and writing. Typed story synopsis required for first class meeting.

366 Violence and the Media (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Violence and the Media examines the impact of the mass media on individual and collective violence, utilizing cultural and semiotic/textual forms of theory and analysis. **GE Theme B**

370 Broadcasting and Film as Shapers of the Public Mind (4)

Prerequisites: BCST 220, 224. Broadcast and film media as persuasive and motivational forces in society, techniques of audience-market research, advertising process, and effects of advertising environment on public opinion and buying power.

377 Introduction to Animation (4)

Prerequisites: ART 159 and ART 244 or consent of instructor. Cel animation practicum stressing development of storyboards, artwork and camera technique. Lecture 1 hour, activity 3 hours.

378 Writing and Storyboarding for Animation (4)

Prerequisites: BCST 265 or consent of instructor. Recommended concurrent enrollment in BCST 377. Research and practice in the creation of original animation storyboards, including structure and design of both visual and verbal content. Study of narrative and non-narrative approaches. Lecture 1 hour, activity 3 hours.

379 Gender and Sexuality in Popular Culture (4) (also listed as ENGL 379)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Survey and critical analysis of narrative and visual representations of gender and sexuality in the modes of popular culture, such as television, film, advertising, popular fiction, and the tabloid press. **GE Theme C**

380 Emotion in Theater and Film (4) (also listed as TA 380)

Prerequisites: Basic Subjects (Block A) and one course from Block C. Analysis of emotion as motivational force in theater and film. Emotion as critical factor in performance, narrative development and the essential mediating component compelling audiences to the theatrical/cinematic experience. **GE Theme E**

381 Advanced Animation (4)

Prerequisite: BCST 377 and BCST 378. Advanced traditional animation course utilizing ink-and-paint or other artistic medium, including digital, to create a short animated film. Repeatable to 8 units. Lecture 1 hour, activity 3 hours.

397 Cinematography (4)

Prerequisite: BCST 200. Principles and practices in motion picture photography including directing for single camera, camera operation, lighting, and editing. May include field trips. Lecture 3 hours, activity 2 hours. Repeatable to 8 units.

401 Advanced Video Production (4)

Prerequisites: BCST 200, 224, 301. Advanced studio and location practicum stressing aesthetics of video production. Seminar 3 hours, activity 2 hours.

403A Advanced Digital Graphics for Film and Television (4)

Prerequisites: BCST 303A and one of: BCST 401, BCST 430 or BCST 475. Advanced instruction and application on digital graphics systems. Lecture 1 hour, activity 3 hours.

403B Advanced Television Digital Post Production (4)

Prerequisites: BCST 303B and one of: BCST 401, BCST 430 or BCST 475. Advanced instruction and application of digital post production television technologies. Lecture 1 hour, activity 3 hours.

403C Advanced Film Digital Post Production (4)

Prerequisites: BCST 303C and one of: BCST 401, BCST 430 or BCST 475. Advanced instruction and application of digital post production film technologies. Lecture 3 hours, activity 2 hours.

410 Contemporary Radio Broadcasting (4)

Prerequisite: BCST 220. Description and analysis of the structure and practice of contemporary radio.

411 Children's Media (4)

Prerequisites: BCST 220, 224. Critical industry and product content analysis of media produced for children, including television programming, film, video games, CD-ROM and computer programs.

420 Responsibility and Regulation in Broadcasting and Film (4)

Prerequisites: BCST 220, 224. Professional responsibilities of broadcasters and film makers to their audiences; regulatory issues, problems, and systems that influence broadcast and film production in the U.S.

424 Crosscultural Broadcasting and Film (4)

Prerequisites: BCST 220, 224. Broadcast media and film as means of crosscultural communication and intercultural understanding from both national and international perspective; moral, social, and psychological implications.

430 Documentary Field Production (4)

Prerequisites: BCST 200, 330. Video field practicum stressing aesthetics and techniques of documentary production. Lecture 3 hours, laboratory 2 hours.

434 Latin American Radio Documentary Production (4) (also listed as LAS 434)

Recommended prerequisites: BCST 320 or 2 upper division Latin American content courses in history, political science, or Latin American studies. Analysis of political, economic, and cultural issues in Latin America, utilizing primary sources; production of research in the form of broadcasting tapes.

440 Noncommercial Broadcasting and Film (4)

Prerequisites: BCST 220, 224. Analysis of noncommercial broadcasting and film systems; special focus on the Public Broadcasting System and key film distribution companies.

453 International Communication Media (4)

Prerequisite: BCST 220, 224, or SPCH 150. Description and analysis of media systems (print, audio, and video) as they exist in various countries around the world, and the means by which information is exchanged internationally.

454 Selected Studies in Broadcasting (1-4)

Selected topics in broadcasting media, as announced in Schedule of Classes. May be repeated to maximum of 12 units for credit as subject matter changes.

454L Selected Studies in Production (4)

Prerequisite: BCST 301. Special application of audio and video production techniques in the creation of entertainment, educational, documentary, and public affairs programming. Variable topics. May be repeated to maximum of 12 units as subject matter changes. Lecture 3 hours, laboratory 2 hours.

460 Theories in Mass Communication (4)

Prerequisite: BCST 220. Historical and analytical investigation of mass communication/media theory.

462 Criticism of and Film and Television (4)

Prerequisite: BCST 362. Purposes and methods of criticism as applied to film and television; development of standards of critical evaluation as determined by analyses of selected television programming and motion pictures.

465 Seminar: Advanced Scriptwriting (4)

Prerequisite: BCST 365 or consent of instructor. Writing workshops, scene clinics and writer/actor lab activities for rewriting an existing feature screenplay and developing a new film/television script. May be repeated to a maximum of 8 units.

470 Administration and Studio Operations in Broadcasting and Film (4)

Prerequisites: BCST 220, 224. Administrative techniques, operational procedures, and organizational structures within contemporary radio and television broadcast stations and film studios.

475 Television News/Magazine Production (4)

Prerequisites: BCST 201, BCST 200. Practicum in television news/magazine segment production. Students produce a weekly program, which appears on campus and local cable systems. May be repeated up to 8 units. Seminar 3 hours, activity 2 hours.

480 New Media Technologies (4)

Prerequisites: BCST 201; 220 or JOUR 100 and 201. Description and analysis of new and evolving communication media, their growth, development, and effect on social and political systems.

492A Motion Picture Preproduction (3)

Prerequisite: BCST 397. Preparation for making a motion picture; emphasis on 16mm short film, applicable to longer films. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

492B Motion Picture Production (3)

Prerequisite: BCST 492A. Shooting and editing motion pictures; emphasis on 16mm short film, applicable to longer films. May be repeated to maximum of 6 units. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

492C Motion Picture Postproduction (3)

Prerequisite: BCST 492B. Negative cutting, sound track preparation, and printing of films; emphasis on 16mm short film, applicable to longer films. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

497 Film and Video Production Portfolio (4)

Prerequisites: BCST 301 and one from BCST 401, 430, or 475, and one from BCST 320, 377, 397, or 402. Practicum focusing on the creation of professional portfolio-quality film and video works suitable for festival entry and employment. Seminar 3 hours, laboratory 2 hours.

498 Capstone Animation Project (1-4) (also listed as ART 498)

Prerequisites: Consent of the instructor plus one of the following sequences: ART 480, 494, 496 or BCST 377, 378, 381. The design, pre-production, production and post-production of an advanced animated work suitable for portfolio presentation. Up to six units may be taken by a student who is assisting on someone else's Capstone Animation Project activity 8 hours. 12 units are required for Animation majors.

499 Undergraduate Directed Study (2-4)

Prerequisites: Consent of adviser and of an instructor to act as sponsor. Individual projects designed to reflect ability of student and to be a contribution to field of educational, informational, or cultural broadcasting. May be repeated to maximum of 8 units.

Courses in Journalism (JOUR)

Lower Division Courses

130 Introduction to Graphic Arts (3) (also listed as TECH 130)

General industrial education course emphasizing the importance of graphic communications in our culture. History, theory, and laboratory-shop practice of varied printing processes, including letterpress, lithography, silk screen, and bookbinding. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Upper Division Courses

391 University Times (4)

Prerequisites: Passing WPE score; BCST 292 for BCST majors. The development and practice of skills in the journalistic craft of reporting, writing and editing nonfiction. Lecture 3 hours, laboratory 2 hours. May be repeated up to 8 units.

453 International Communication Media (4)

Prerequisites: BCST 220, 224 or JOUR 100 and 201 or SPCH 150. Description and analysis of media systems (print, audio, and video) as they exist in various countries around the world, and the means by which information is exchanged internationally.

492 Radio and Television News Writing (4)

Prerequisites: BCST 292. Analysis and preparation of local news and commercials, introductions and special news features for radio and television.

499 Undergraduate Directed Study (2-3)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and a final report submitted. May be repeated for credit.

Courses in Mass Communication (MSCM)

Lower Division Courses

100 Introduction to Mass Media (4)

Introduction to book, newspaper and magazine publishing, motion pictures, broadcasting, and new information technologies examined in terms of communication theory and as economic, political, and social institutions. **CAN JOUR 4**

Upper Division Courses

390 Technology and Human Interaction (4) (also listed as SPCH 390)

Prerequisite: BCST 220 or JOUR 201 or SPCH 150. Comparison of the mass media with other forms of human interaction with attention given to the interactive role and effect of these human communication processes.

Courses in

Speech Communication (SPCH)

Subcollegiate Courses

094 Mainstream American Dialect (4)

Sounds, intonation, and rhythm of mainstream American dialect to modify student's own accent and pronunciation. (Limited to students whose dialects are not standard American English.) Graded CR/NC. No credit toward baccalaureate.

Lower Division Courses

130 Introduction to Human Communication (4)

Overview of human communication across contexts. Introduction to Speech Communication as a discipline; survey of areas and methods comprising the field.

150 Oral Communication (4)

Introduction to effective oral communication through study and experience in analysis, synthesis, and presentation of informative and persuasive discourse in a public speaking forum. **CAN SPCH 4 GE A2**

SPCH 150 is prerequisite to all Speech Communication major courses with numbers 300 and higher.

151 Speech Proficiency Assessment for Teachers (1)

Review of theory and practice of public speaking for classroom teachers. Workshop and assessment of speaking skills. Open only to students currently or previously enrolled in EDEL 300. Graded CR/NC.

176 Argumentation (4)

Principles of argumentation: reasoned discourse, methods of logical analysis and reflective thinking, practical application through adaptation of materials to audience situations, argumentative speech, kinds and forms of debate about current issues. **CAN SPCH 6 GE A3**

230 Communication Strategies in Conflict Management (4)

This course examines the communication theories and strategies underlying the nature of conflict in contemporary society. Provides students with the necessary skills to effectively manage conflict. **GE E**

267 Introduction to Oral Interpretation (4)

Study of communicative dimensions of literature through analysis and performance.

268 Group Performance Practicum (2)

Lecture-workshop in ensemble performance of literature. Techniques of chamber theatre, reader's theatre, story theatre production and script adaptation. May be repeated to maximum of 8 units.

275 Interpersonal Communication (4)

Introductory study of interpersonal communication; verbal and nonverbal communication in face-to-face interaction; how individuals assume roles as message senders, receivers; interpersonal perception and adaptation; barriers to interpersonal communication.

276 Argumentation and Reasoned Advocacy (4)

Prerequisites: SPCH 150 and SPCH 176. Principles of reasoned advocacy: practical application of argumentation through creation and adaptation of reasoned appeals to audience situations.

277 Forensics (2)

Introductory workshop in intercollegiate forensic activities. May be repeated to maximum of 12 units. Graded CR/NC.

278 Problem Solving through Group Discussion (4)

Principles of decision-making and interaction in group communication situations, development of discussion, participation, and leadership skills for business, school, and community.

290 Mediated Communication (4)

Prerequisite: SPCH 130 or permission of instructor. Introduction to mediated communication technologies, including internet, databases, and emerging technologies. Emphasis on critical, analytical assessment of technologies effects on intercultural, public and interpersonal communication

Upper Division Courses**300 Applied Writing in Speech Communication (4)**

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); for Radio-TV Broadcasting majors, BCST 224; upper division standing. Writing practicum in historical, critical, and empirical approaches to speech communication and media studies; emphasizing language usage in description, exposition, narration, and persuasion; techniques include observation, editing, and criticism.

330 Organizational Studies (4)

Paradigms of organizational communication; classical and contemporary theories, practices, and processes in organizational communication. Major communication themes, metaphors, and issues of the contemporary workplace.

340 Interviewing (4)

Dyadic communication in formal and informal settings. Understanding of informative, persuasive, medical, journalistic, legal, and employment interviews.

342 Rights and Justice in Communication and Politics (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Freedom of communication, political rights, diversity, and justice. The evolution of these rights in the United States; analysis of contemporary problems, global implications, and potential solutions in our multicultural world.

367 Performance Studies (4)

Prerequisite: SPCH 267 or 277 or 377 or permission of instructor. Performance as a paradigm for understanding text and behavior. Analysis and performance of literature, cultural performance, and performance art included with emphasis on in-class performance and fieldwork.

370 Business and Professional Communications (4)

Study and application of theories of communication in business contexts and situations. Topics include: dyadic, group, organizational, public, and mediated communication interactions, interviews, and presentations.

371 Persuasive Communication (4)

Study and application of rhetorical and social-psychological principles of persuasion. Consideration of attitude change models and behavioral studies of variables affecting persuasion. Opportunity for preparation and criticism of persuasive discourse.

372 Media, Communication and the Environment (4)

Prerequisites: Completion of the Basic Subjects (Block A) and one course from Block D. The global environment as represented in mass media and communication; the interaction of the individual and the popular press, public communication, and film; effectiveness of public environmental communication campaign.

377 Advanced Forensics (2)

Prerequisite: SPCH 277 Faculty supervised workshop preparing for University-sponsored speech activities, including speech and debate tournaments. May be repeated to maximum of 12 units.

380 Introduction to Rhetorical Studies (4)

Prerequisite: SPCH 150. Introduction to the study of rhetoric and rhetorical theory. Study of the nature, function and scope of rhetoric emphasized.

385 Sex and Gender in Language and Literature (4) (also listed as ENGL 385)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of concepts of sex, gender as experienced in language and literature. Comparative language behavior of women and men as revealed in research on communication and in representative literary works, both classical and modern.

389 Intercultural Communication in the Urban Environment (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Processes, problem of intercultural communication in multi-cultural, multiethnic urban environments. Focus on comparative cultural analyses, impact of social, gender, political, economic, interpersonal forces on intercultural interaction in urban life.

390 Technology and Human Interaction (4) (also listed as MSCM 390)

Prerequisite: SPCH 290 or BCST 220 or permission of instructor. Comparison of new communication technologies with other forms of interaction. Attention given to interactive roles and effects of technologies on interpersonal, public, and intercultural communication.

396 Publicity and Promotions (4)

Prerequisite: SPCH 300 or equivalent. Methods, planning and tools used in developing company, community and institutional public relations programs. Focuses on publicity and promotional techniques, media relations, copy preparation, news releases, and publications.

400-Level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of a graduate adviser: SPCH 431, 499

430 Dynamics of Organizational Communication (4)

Prerequisite: SPCH 330. How global competition, social phenomenon, new philosophies, new technologies, and metaphors for looking at organizations shape the dynamic landscape of organizations and affect the way people communicate and conduct business.

431 Internship in Organizational Communication (4)

Prerequisite: SPCH 430. Opportunity to study and participate in communication processes of selected local organizations under academic supervision; emphasis on student intern's ability to diagnose and solve organizational communication problems. May be repeated once for credit.

435 Communication and Leadership (4)

Prerequisite: SPCH 330 or permission of instructor. Review theories of communication leadership. Emphasis on the study of communication skills central to performing successfully as a leader in a variety of organizational contexts.

436 Communication and the Diffusion of Innovation (4)

Prerequisite: SPCH 330 or permission of instructor. Study of the relationship between communication and the process through which innovations (new ideas, technologies, ideologies, products or services) spread through society and affect people over time.

440 Relational Communication (4)

Prerequisite: SPCH 275. Analysis of current theory and research on communication in intimate and personal relationships; how individuals develop and maintain relationships; how gender, culture and social context affect communication in interpersonal interactions.

450 Communication Theory (4)

Survey and analysis of behaviorally oriented theories and their variables in the communication process.

452 Theory Construction (4)

Prerequisites: SPCH 450, 477, 478 or senior standing. Senior capstone experience. Examination of the theoretical concepts and perspectives relevant to studying and conducting research in rhetoric and communication theory. Social scientific and humanities perspectives emphasized.

454 Selected Studies in Speech Communication (1–4)

Prerequisites: Varies with topic; see Schedule of Classes for specific prerequisites. Intensive study of selected topics in speech communication. May be repeated to a maximum of 12 units for credit as subject matter changes.

**459 Intercultural Business Communication (4)
(also listed under MKT 459)**

Prerequisite: MGMT 301 or SPCH 300. Analytical approach to understanding cultures in order to do business effectively. Steps in achieving intercultural communication competence, framework for understanding cultures, nonverbal communication, document organization from cultural priorities, and negotiation.

462 Nonverbal Communication (4)

Body motion, eye and facial behavior, paralanguage, touch, proxemics, physical characteristics, artifacts and environmental factors as they affect communicative exchanges.

463 Language and Communication Behavior (4)

Nature, origin, and use of speech and language in social, cultural, symbolic, and functional contexts; investigation and analysis of discourse and behavioral effects; significance of communication competence.

**467 Theory and Method in Performance Studies (4)
(also listed as TAD 467)**

Prerequisite: Upper division course in SPCH, TA or DANC. Introduction to major theoretical perspectives in performance studies and to key methodologies for investigating performance in/as culture. Central concepts include social drama and performance ethnography.

**468 Performance and Social Change (4)
(also listed as TAD 468)**

Prerequisite: SPCH 367 or 467 or upper division theory course in TA, DANC or rhetoric. Aesthetic, pedagogical underpinnings of performance and social change. Relationships between performance and liberation in avant garde works and across cultures. Theoretical and pragmatic concerns as these emerge in production.

470 Theories of Rhetoric: Survey and Analysis (4)

Prerequisite: Upper division standing. Principal theories of rhetoric from classical Greece to the modern period; historical perspectives on communication and social influence; impact of changing political, psychological, sociological, and technological contexts.

471 Rhetoric and Religion (4)

Prerequisite: SPCH 380 or permission of instructor. Relationship between rhetoric and religion in traditional and contemporary rhetorical theory. Course evaluates rhetorical and public discourse dealing with religion, and religious discourse dealing with rhetoric.

472 Studies in Literature of International Public Discourse (4)

Prerequisite: One SPCH course. Analysis and evaluation of international rhetoric and speech communication; some attention to great international speakers and speeches; emphasizes communication in contemporary social, political, and cultural movements and campaigns.

473 Rhetoric and Social Controversy (4)

Prerequisite: SPCH 380 or permission of instructor. Analysis of rhetorical problems associated with social controversies. The nature, forms, stages and roles of social controversies are examined through the study of rhetorical public discourse in the political process.

473A Studies in Literature of American Public Discourse to 1860 (4)

Prerequisite: One SPCH course. Analysis and evaluation of American rhetoric and speech communication; some attention to great speakers and speeches; emphasizes communication in social, political, and cultural movements and campaigns, colonial times to 1860.

473B Studies in Literature of American Public Discourse: 1860–Present (4)

Prerequisite: One SPCH course. Analysis and evaluation of American rhetoric and speech communication; some attention to great speakers and speeches; emphasizes communication in social, political, and cultural movements and campaigns, 1860 to present.

474 Studies in National and International Public Discourse (4)

Prerequisite: One SPCH course. Analysis and evaluation of national and/or international discursive rhetoric; some focus on great speeches and speakers; emphasizes diversity of communicative expression in social, political, and cultural movements and campaigns.

475 Feminism and Communication (4)

Prerequisites: SPCH 330, SPCH 367 or permission of instructor. Survey of critical perspectives on gender in communication. Particular attention is paid to social construction of gender and sexuality.

477 Qualitative Methods in Communication (4)

Prerequisites: SPCH 380 or 330 or 367. Survey of qualitative communication research methods; critical analysis of representative studies; research proposal writing for qualitative projects.

478 Group Communication: Dynamics of Leadership and Participation (4)

Prerequisite: A course in group discussion. Advanced study of communication processes in small groups and effects of leadership and participation; development of communication sensitivity.

479 Sex Roles in Communication (4)

Sex as a variable influencing human communication in dyads, small groups, organizations, families; speaker-audience interaction; male-female differences in use of language, and nonverbal behavior.

482 Rhetorical Theory: Contemporary Developments (4)

Prerequisite: SPCH 470. Survey of contemporary theories of rhetoric and communication.

483 Campaign Communication (4)

Prerequisite: SPCH 380 or permission of instructor. Variable content course focusing on contemporary campaigns. Strategies of communication in American political campaigns including public discourse and media coverage. May be repeated to 8 units as content changes.

484 Political Communication (4)

Prerequisite: SPCH 380 or permission of the instructor. Analysis and evaluation of political communication from the perspectives of contemporary rhetorical theory and cultural theory. Political communication theorized through the analysis of case studies.

485 Rhetorical Criticism (4)

Prerequisite: One SPCH course. Nature and function of rhetorical criticism; survey of approaches, theories, and systems of rhetorical analysis from classical to contemporary. Practice in critical appraisal of various types of speech communication.

486 Communication and Cultural Studies (4)

Prerequisite: Upper division course in Communication Studies. Survey of history, primary texts, and representative studies in cultural studies. Emphasis on cultural studies of media, technology, and communication.

487 Proseminar: Experimental Research in Speech (4)

Prerequisite: Upper division standing. Introduction to methodology of experimental research and critical analysis of representative studies in speech.

489 Intercultural Communication (4)

Description and analysis of cultural influences on human communication acts; codes and paralinguistic elements; focus on communication between cultures in an urban setting.

490 Studies in Children's Speech Arts (4)

Theory and criticism of creative dramatics, choric interpretation and storytelling.

491 Instructional Theories in Communication (4)

Prerequisites: Senior standing, 20 units of upper division SPCH courses. Principles of communication in educational settings, literary study, survey, critical review, and application of contemporary theories and trends in instructional communication.

492 Communication Training in Organizations (4)

Prerequisite: SPCH 330 or permission of instructor. Study of communication training and development process. Application of organizational communication theories through organizational assessment, creation of training objectives and evaluation of training programs.

494 Communication Behavior in Childhood (4)

(also listed as CHDV 494)

Oral language and communicative behavior in children; studies in speech and language experiences basic to development of communication skills competence.

497 Managing Problems in Public Relations (4)

Prerequisite: SPCH 394. Advanced study of public relations issues, with emphasis on contemporary problems faced by business organizations and other institutions. Analysis of case studies in public relation problems and crisis management.

498 Research Project in Speech Communication (4)

Prerequisite: Senior standing and consent of instructor. Independent research project designed and executed by student in consultation with faculty sponsor. Final report made available to Speech area faculty.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated to a maximum of 12 units for credit.

List of Courses - Graduate Level

Classified graduate standing is required for admission to all 500-level courses

Courses in Communication (COMS)

500 Graduate Scholarship in Communication Studies (4)

Seminar examining current foci in the fields of Communication Studies. Designed to investigate directions or advanced inquiry within the discipline.

501 Seminar: Research Methods in Telecommunications and Film (4)

Prerequisite/Corequisite: COMS 500. Investigation of conceptual and procedural aspects of quantitative and qualitative research techniques relevant to the advanced study of mass media.

505 Seminar: Critical Approaches to Television and Film (4)

Prerequisite: COMS 501. Survey and examination of critical approaches to television and film including semiotics, deconstruction, structuralism, poststructuralism, feminism, psychoanalytic criticism, reception theory, queer theory, Marxist criticism, postmodernism, and postcolonial criticism.

506 Seminar: Television Programming (4)

Prerequisite: COMS 501. Examination of the representational practices of American commercial television and the economic imperatives that drive those practices and their ideological implications.

507 Seminar: Post World War II Film and Television History (4)

Prerequisite: COMS 501. Variable topic seminar on seminal issues in film and television history since World War II. May be repeated to a maximum of 8 units.

510 Seminar: Narrative Studies in Film and Television (4)

Prerequisites: COMS 501, COMS 505. Examination of theories, structures, and procedures of narrative in film and television.

515 Seminar: Media, Culture and Society (4)

Prerequisites: COMS 501, COMS 505. In-depth study of select "media events" with an emphasis on their impacts in the formation, regulation, and contestation of public opinion. May be repeated to a maximum of 8 units.

520 Seminar: Documentary Film and Television (4)

Prerequisite: COMS 500. Examination of the theory and practice of documentary as narrative, information, education, catalyst for social maintenance and change.

564 Seminar: Adaptation (4)

Prerequisite: COMS 510. Examination of the process of screen and television adaptation. Study of theories of the cinematic and televisual as pertaining to translations of literary and theatrical narrative, character, and space.

565 Seminar: Feature Film Writing (4)

Prerequisites: BCST 465; COMS 510. The study of plot, character development, and dialogue in film genre writing using close readings of professional and student screenplays. Discussion of research, software, and career planning for future screenwriters.

566 Seminar: Narrative Television Writing (4)

Prerequisites: BCST 465; COMS 510. The study of plot character development and dialogue in television genre writing using close readings of professional and student teleplays. Discussion of research, software, and career planning for television screenwriters.

567 Seminar: Non-Fiction Writing (4)

Examination of planning, researching, formatting, and presenting nonfiction treatments and scripts using close readings of professional and student documentaries. Discussion of research, software, career planning for nonfiction writers.

590 Capstone Research Seminar (4)

Prerequisites: COMS 500 and 12 units of 500-level seminar credit. Culminating experience for advanced students preparing to present research projects in their areas of specialization. Intensive conference and thesis preparation; culminating research experience for students choosing the comprehensive exam option.

599 Thesis (1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 6 units. Graded CR/NC.

599S Script Thesis

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, department approval of topic prior to registration. Independent research and writing resulting in an original screen or teleplay and analytical report. Oral examination on script and report required. May be repeated to maximum of 6 units. Graded CR/NC.

Courses in

Speech Communication (SPCH)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of a graduate adviser: SPCH 431, 499

530 Seminar: Organizational Communication (4)

Prerequisites: SPCH 430, 350, 450, 463, or 478. Contemporary theoretical and methodological issues or constructs in organizational or interpersonal communication. May be repeated to maximum of 8 units with adviser approval.

540 Seminar: Interpersonal Communication (4)

Prerequisites: SPCH 350, 450, 478, or 487. Contemporary theoretical and methodological issues and constructs in interpersonal communication. May be repeated to maximum of 8 units with adviser approval.

550 Seminar: Communication Theory (4)

Prerequisite: SPCH 450 or 487. Examination of theoretical perspectives, principles of theory building, and new developments in communication research. May be repeated to maximum of 8 units with adviser approval.

554 Selected Topics in Communication Studies (1-4)

Prerequisite: Varies with topic; see *Schedule of Classes*. Intensive study of selected topics in communication studies. May be repeated for credit as topic changes.

560 Seminar: Language and Communication Behavior (4)

Prerequisite: SPCH 450, 461, 463, or 494. Contemporary theories, research perspectives, and subject areas in language and communication behavior. May be repeated to maximum of 8 units with adviser approval.

562 Seminar: Theories of Mass Media (4)

Prerequisite: SPCH 450 *or* 470 *or* 482 *or* MSCM 460. Research and theory in mass media since television; analysis of media situations, messages and ideological effects. May be repeated once with adviser approval.

567 Seminar: Theories of Oral Interpretation (4)

Prerequisite: SPCH 367. Analysis of main theories of art of interpretation, with special emphasis on their bearing on contemporary theory and practice. May be repeated once for credit with adviser approval.

572 Seminar: International Public Discourse (4)

Prerequisites: SPCH 472, 485. Intensive study of major international orators, their ideas, style, rhetorical strategies and roles in social and aesthetic movements and in world history. May be repeated once for credit with adviser approval.

573 Seminar: American Public Address (4)

Prerequisites: SPCH 473A *or* 473B; 485. Examination and analysis of speeches and debates about selected major issues in American affairs. May be repeated once for credit with adviser approval.

576 Seminar: Argumentation, Discussion, and Debate (4)

Prerequisite: One upper division course in rhetorical theory. Analysis of significant literature, major trends, and theories of argumentation, discussion, and debate; intensive study of relationship of those areas to each other. May be repeated once for credit with adviser approval.

580 Seminar: Rhetorical Theory (4)

Prerequisite: At least one upper division course in rhetoric. Selected studies in philosophy of speech rhetoric and influence of rhetoric on historic and contemporary movements. May be repeated once for credit with adviser approval.

589 Seminar: Intercultural Communication (4)

Prerequisite: SPCH 489. Contemporary theories, research perspectives and significant cultural influences relating to communication between cultures. May be repeated once for credit with adviser approval.

590 Seminar: History of Speech Communication in America (4)

Prerequisite: Instructor consent. Historical movements, contemporary theories, and development of speech communication as a discipline of study; examination of significant literature, scholars, and leaders in the field. May be repeated to maximum of 8 units with adviser approval.

595 Graduate Performance (1-4)

Prerequisite: Consent of graduate adviser. Demonstration of graduate-level proficiency in a major performance situation: research or analytical written project directly related to performance. May be repeated to maximum of 4 units.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in the field; regular conferences with sponsor. May be repeated for credit.

599 Thesis (1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 6 units. Graded CR/NC

Department of**Criminal Justice**

School of Health and Human Services

DEPARTMENT OFFICE

King Hall D1045

Phone: (323) 343-4610

E-mail: dbaskin@calstatela.edu

Website: [http:// www.calstatela.edu/dept/crim_jus/index.htm](http://www.calstatela.edu/dept/crim_jus/index.htm)

Programs in the Department of Criminal Justice are designed to prepare students for successful positions in law enforcement, corrections, criminal justice planning and/or law, as well as for further study in graduate or professional schools in any of these fields. The curriculum provides intensive study in the areas of criminal justice theory, research methodology and data analysis, criminal law, organizational functioning, program planning and criminalistics. The program strives to promote understanding of key criminal, legal, and scientific issues affecting contemporary urban society and respect for racial, ethnic, cultural and gender diversity.

The Department of Criminal Justice offers programs leading to the Bachelor of Science degree in Criminal Justice, a Master of Science degree in Criminal Justice and a Master of Science degree in Criminalistics. The Criminalistics degree builds upon undergraduate preparation in chemistry. Also offered is an undergraduate minor for students majoring in other fields.

The Faculty

Professor: Deborah R. Baskin (Chair).

Associate Professors: Anthony Longhetti, Ira Sommers.

Assistant Professors: Susan Coutin, David A. Jenks, Katherine Roberts.

Emeriti: Allen P. Bristow, William M. Cole, Harry Diamond, G. Douglas Gourley, Richard C. Grace, Robert H. Morneau, Jr., Nathaniel Trives.

Undergraduate Programs**Bachelor of Science
Degree in Criminal Justice**

The Bachelor of Science Degree in Criminal Justice is designed to prepare individuals academically in the behavioral, natural and social science perspectives, as well as for further study in graduate or professional schools in any of these fields. The program provides intensive study in areas of criminal justice theory, research methodology and data analysis, criminal law, organizational functioning, and program planning. The program strives to promote understanding of key criminal and legal issues of contemporary urban society and respect for racial, ethnic, cultural, and gender diversity. By incorporating a multidisciplinary social, behavioral and natural science approach to undergraduate study, the program provides two important benefits for the student. First, it encourages the development of an interrelated perspective with regard to the study of criminal justice. This perspective facilitates a more comprehensive focus on the connections among the endeavors of crime prevention, law enforcement, adjudication, and punishment. Secondly, the program is designed to encourage the development of effective analytical and problem-solving skills that will equip professionals with the intellectual capacity necessary for a variety of positions in criminal justice.

Limitations on Transfer Credit

Students intending to transfer to Cal State L.A. from a community college to continue work toward a Bachelor of Science degree in Criminal Justice are advised to complete general education requirements and the five lower division core courses equivalent to those in the Cal State L.A. curriculum prior to transferring.

Requirements for the Major (88 units)

A total of 186 units is required for the Bachelor of Science degree in Criminal Justice, including a minimum of 88 units for the major. See the ***Undergraduate Study: General Information*** chapter for details about the General Education and other requirements that constitute the units outside the major.

All students must complete a required core of 24 quarter units in lower division courses inclusive of 20 units of lower division within the major and 4 units of a required lower division course in modern languages (ML 140, Modern Language and the Criminal Justice System). The total upper division requirement includes 64 units; sixteen (16) units of upper division directed electives are taken in related fields. A student's major program may contain no more than 24 units of credit for any combination of prior experience, work experience, community service, or directed study.

All students must see a faculty adviser in the department before beginning the program. Further, all students must receive approval from a faculty adviser before making any changes in the major program. Students must maintain an overall "C" average or better in their major curriculum. Major curriculum includes lower and upper division criminal justice core courses as well as criminal justice electives and directed electives in related fields. A total of two repetitions of courses in the core will be allowed. Students who receive two failing grades within the upper or lower division core will be required to change their major.

Required Core**Lower Division Required Core Courses (24 units)**

- CRIM 101 Introduction to Administration of Justice (4)
 CRIM 126 Concepts of Criminal Law (4)
 CRIM 201 Correctional Systems (4)
 CRIM 202 Police Organization and Administration (4)
 CRIM 203 Judicial Organization (4)

Required Lower Division Course in Multicultural Studies (4 units)

- ML 140 Modern Languages and the Criminal Justice System (4)

Upper Division Required Core Courses (36 units)

- CRIM 301 Written Communication in Criminal Justice (4)
 CRIM 302 Juvenile Justice (4)
 CRIM 303 Theories and Perspectives in Criminal Justice (4)
 CRIM 405 Ethics and Professional Responsibility (4)
 CRIM 428 Contemporary Criminal Procedures (4)
 CRIM 430 Criminal Justice Research (4)
 CRIM 431 Contemporary Police Practice and Problems (4)
 CRIM 483 Computer Techniques in Criminal Justice (4)
 CRIM 492 Advanced Criminal Justice Theory and Practice (4)

Electives in Criminal Justice (12 units)

Complete 12 units from the following:

- CRIM 304 Interface Between Criminal Justice and the Community (4)
 CRIM 305 Criminal Justice in the Courts (4)
 CRIM 306 Crime Control Policy (4)
 CRIM 308 White-Collar Crime (4)
 CRIM 365 Personal Identification Systems (4)
 CRIM 395 Community Service in Criminal Justice (1-4)
 CRIM 398 Cooperative Education in Criminal Justice (1-4)

Electives in Criminal Justice (cont'd)

- CRIM 406 Comparative Justice Systems (4)
 CRIM 409 Forensic Science (4)
 CRIM 411 Interpretation of Evidence in the Courtroom (4)
 CRIM 412 Crime Scene Management (4)
 CRIM 432 Mental Disorder, Substance Abuse and Violence (4)
 CRIM 454 Special Topics in Criminal Justice (4)
 CRIM 491 Contemporary Studies in Criminal Justice (1-8)
 CRIM 499 Undergraduate Directed Study (1-4)

Directed Electives in Related Fields (16 units)

With major adviser approval, students select 16 units of **upper division** directed electives in related fields.

With adviser approval, a minor in a related field is acceptable as directed electives provided the minor contains at least sixteen (16) units of upper division curriculum. If the selected minor contains less than sixteen (16) units of upper division curriculum, the student will have to select additional upper division courses outside the minor to meet the sixteen-unit curriculum requirement.

Minor in Criminal Justice

The minor in Criminal Justice is designed for students majoring in other fields who wish to prepare for careers relating to the administration of criminal justice. A total of 32 units is required.

Required for the Minor (32 units)**Lower Division Required Core Courses (16 units):**

CRIM 101, 126, 201, 202

Upper Division Required Core Courses (16 units):

CRIM 303, 405, 428, 430

Certificate Program

In addition, the department offers course work acceptable toward fulfillment of requirements for the interdisciplinary credit certificate in Child Maltreatment and Family Violence offered by the School of Health and Human Services.

Graduate and Postbaccalaureate Programs

Two Master of Science degrees are offered by the Department of Criminal Justice: a Master of Science in Criminal Justice and a Master of Science in Criminalistics. The program leading to the Master of Science in Criminal Justice addresses issues of crime and criminal justice within a framework that emphasizes theory and research with their implications for criminal justice policy and practice. The curriculum is grounded in the social, behavioral and natural sciences. It is designed to provide the background necessary for administrative, policy and research positions in criminal justice. It also prepares students for doctoral study in criminal justice and related fields. The Department recognizes the value of diverse methodological and theoretical approaches and encourages their complementary use and integration. The program leading to the Master of Science degree in Criminalistics offers a specialization in the application of science to the criminal justice process.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must satisfy specific department requirements before admission to either the criminalistics or criminal justice graduate degree programs. Application forms to the department are available in the department office. Transcripts from all colleges and universities attended must be submitted with the department application in addition to the transcripts required by the office of University Admission and Outreach. Students must also arrange to take the graduate record exam (GRE) and to have their GRE scores sent directly to the department by the Educational Testing Service. A minimum grade point average of 2.75 for the baccalaureate degree and 3.0 in the undergraduate major are required for consideration. Applications will not be considered until all of these conditions are met.

Applicants who do not meet the above requirements may be admitted under certain circumstances in conditional status at the discretion of the department Graduate Admissions Committee.

Master of Science Degree in Criminalistics

The criminalistics program is built on undergraduate preparation in chemistry and provides technical training in crime laboratory skills, with special emphasis on development of skilled experts able to function in a variety of scientific fields. In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in chemistry from an accredited college or university, or a baccalaureate in a related scientific field with a minimum of 36 quarter units in chemistry, including 12–15 units in organic chemistry.

Prerequisites

The following courses in criminal justice or their equivalents must have been completed prior to admission to graduate study or may be taken concurrently. These courses are not included in the 45 units required for the master's degree.

- CRIM 126 Concepts of Criminal Law (4)
- CRIM 202 Police Organization and Administration (4)
- CRIM 365 Personal Identification Systems (4)
- CRIM 409 Forensic Science (4)
- CRIM 430 Criminal Justice Research (4)
- CRIM 483 Computer Techniques in Criminal Justice (4)

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Required Courses (32 units)

- CRIM 551-553 Advanced Criminalistics I–III (4, 4, 4)
- CRIM 554 Identification of Modern Drugs (4)
- CRIM 555 Questioned Document Analysis (4)
- CRIM 556 Seminar: Special Problems in Criminalistics (4)
- CRIM 557 Legal Medicine in Criminalistics (4)
- CRIM 599 Thesis (4)

Electives (13 units)

Select 5 units in criminal justice and 8 units in related fields with adviser approval.

Master of Science Degree in Criminal Justice

In addition to University requirements for admission to graduate study, applicants must possess a baccalaureate from an accredited college or university with acceptable preparation in criminal justice and general principles of theory and research.

Prerequisites

Undergraduate preparation must include the following courses or equivalents:

- CRIM 101, 126, 303, 405, 430, 483

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Required Core Courses (29 units)

- CRIM 501 Seminar: Administration of Justice (4)
- CRIM 511 Principles of Research (4)
- CRIM 512 Quantitative Applications (4)
- CRIM 513 Qualitative Approaches (4)
- CRIM 530 Theories and Perspectives (4)
- CRIM 538 Seminar: Criminal Justice Problems (4)
- CRIM 590 Planning and Program Development (5)

Directed Electives in Criminal Justice and Related Fields (12-16 units)

- CRIM 506 Seminar: Comparative Criminal Justice Administration (4)
- CHDV 502 Children under Transitory Stress (4)
- POLS 530 Seminar: Policy Analysis (4)
- PSY 510 Seminar: Abnormal Psychology (4)
- PSY 512 Behavior Disorders in Children (4)
- PSY 522 Seminar: Social Psychology (4)/ or
- SOC 522 Seminar: Social Psychology (4)
- SOC 526 Sociology of Deviant Behavior (4)
- SOC 530 Seminar: Urban Social Systems (4)
- SOC 544 Seminar: Social Organization and Institutions (4)
- SOC 560 Seminar: Racial and Ethnic Minorities (4)
- SOC 584 Seminar: Corrections (4)

Comprehensive Examination or Thesis (0-4)

- CRIM 596 Comprehensive Examination (0)
- CRIM 599 Thesis (4)

Students must have completed all other degree requirements prior to enrolling for the comprehensive examination.

The Comprehensive Examination (CRIM 596) is a written, on-site examination that covers issues related to theory, research and urban problems as they impact on criminal justice. Students may take the comprehensive examination during the fall, winter or spring quarters after completion of their course work and must comply with school and department requirements regarding the comprehensive examination. Students are allowed a maximum of two attempts to complete the comprehensive examination successfully.

The thesis may only be selected after approval from the department Graduate Committee. Oral defense of the thesis is required.

List of Courses (CRIM) - Undergraduate Level

Lower Division Courses

101 Introduction to Administration of Justice (4)

History and philosophy of law enforcement and administration of justice in America; examination of various agencies, systems, and subsystems; role expectations and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education, and training for professionalism in the system. **CAN AJ 2**

126 Concepts of Criminal Law (4)

General provisions of criminal law; history and development; elements of a crime, parties to a crime; defenses to criminal culpability; elements of specific crimes; crimes against person, property, public place, and safety. **CAN AJ 4**

201 Correctional Systems (4)

Prerequisite: CRIM 101. Objectives of correctional administration; laws, records, public relations, personnel, and relationships to programs, including custodial and noncustodial interrelationships and divisions; physical plant and security, employment, and care and treatment program.

202 Police Organization and Administration (4)

Effect of organizational structure and administrative procedure of the implementation of police function; assessment of processes of recruitment, career advancement and leadership; administrative problems of staffing, supervision and morale.

203 Judicial Organization (4)

History, concepts and services related to judicial organization, management and administration; prosecutorial and court functions.

299 Undergraduate Directed Study in Criminal Justice (1-8)

Prerequisite: Completion of all lower division core courses in criminal justice at a two-year college. Individualized independent study in criminal justice for transfer students from community colleges.

Upper Division Courses

301 Written Communication in Criminal Justice (4)

Prerequisite: Satisfactory completion of the Graduate Writing Assessment Requirement (GWAR). Fundamentals of report writing and data processing (gathering, analyzing, producing, and evaluating). Graded ABC/NC.

302 Juvenile Justice (4)

Prerequisite: CRIM 203. Interactions among social, economic and political forces in juvenile delinquency and their impact of justice system processes; nature and operation of the juvenile justice system.

303 Theories and Perspectives in Criminal Justice (4)

Prerequisite: CRIM 101. Nature and scope of crime problems; issues related to assessment and measurement of crime; survey of theoretical formulations and perspectives of crime causation.

304 Interface between Criminal Justice and the Community (4)

Prerequisite: CRIM 101. Theory and practice of major community-based responses to criminal justice problems including community-based policing, community dispute resolution, community corrections.

305 Criminal Justice in the Courts (4)

Prerequisites: CRIM 126, CRIM 203 or consent of instructor. Roles and responsibilities of criminal justice professionals in the U.S. legal process; philosophical and political barriers that influence the law's use of research in legal proceedings; issues related to technological advancement; case studies.

306 Crime Control Policy (4)

Prerequisite: CRIM 202. Process for development of crime control; citizen expectations; influences of celebrated cases, media coverage, public opinion, and politics, ease of solutions addressing symptoms; solutions designed to address the "root causes."

307 Forensic Mental Health (4)

Prerequisites: Completion of one lower division General Education social science course or CRIM 101. Nature, prevalence, and consequences of mental disorder among criminal offenders; influence of substance abuse; violence and mental disorder; criminal justice system handling of the mentally ill.

308 White Collar Crime (4)

Prerequisite: CRIM 303. Issues and varieties of white-collar crime; survey of theories and research; detecting, prosecuting and sentencing white-collar offenders; corporate crime, case studies.

365 Personal Identification Systems (4)

Prerequisite: CRIM 202. Types of personal identification systems that serve investigative function in public agencies; existing and potential resources; analysis of modus operandi, fingerprints, voiceprints, psychological profile; visual identification.

370 Women and Crime (4)

Prerequisite: Completion of one lower division general education social science course or CRIM 101.

Issues and factors related to women's involvement in crime; survey of past and contemporary theories and research; criminal justice practice as related to female offenders; research on desistance.

395 Community Service in Criminal Justice (1-3)

Prerequisites: Approval by faculty sponsor in consultation with EPIC Director, acceptance by community agency. Participation in community service work. May be repeated to maximum of 6 units. Graded CR/NC.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: CRIM499

405 Ethics and Professional Responsibility (4)

Nature and scope of misconduct, special risks and responsibilities, legal and institutional controls, concepts of professionalism, codes of ethics, conflict of interest, and problems in exercise of discretion.

406 Comparative Justice Systems (4)

Exploration and comparison of foreign criminal justice systems, foreign innovations in crime prevention, corrections, investigation, administration, and training.

409 Forensic Science (4)

Prerequisite: Upper division standing. History, concepts, and services of the forensic sciences to the criminal justice system, including criminalistics, forensic pathology, forensic dentistry, forensic anthropology, and forensic psychiatry.

411 Interpretation of Evidence in the Courtroom (4)

Prerequisite: CRIM 303. Issues affecting the prosecution, plaintiff and defense in determining the outcome of a trial; the role of expert witnesses in presenting the principles of logic and probability.

412 Crime Scene Management (4)

Prerequisite: CRIM 365. Protection and proper documentation of the crime scene contrasted with the role of the media and other significant factors that often cause conflict.

428 Contemporary Criminal Procedures (4)

Prerequisite: CRIM 126. Bill of Rights and federal criminal procedure; application of due process clause of Fourteenth Amendment; exclusionary rule; case law reconciling civil rights and security of community.

430 Criminal Justice Research (4)

Prerequisites: CRIM 301 and CRIM 303. Underlying research concepts, methodologies and techniques appropriate for application in criminal justice environments, including the scientific method, basic research designs and data collection techniques. Special consideration of constraints on research within criminal justice settings.

431 Contemporary Police Practices and Problems (4)

Prerequisites: CRIM 202 and CRIM 301. Critical law enforcement problems including organized crime, alcohol, drugs, policing of civil and natural disturbances; diffusion and multiplicity of police agencies. Problems with crime reporting, assessment and public reaction.

432 Mental Disorders, Substance Abuse and Violence (4)

Prerequisite: CRIM 303. Relationship of mental illness to violent crime; alcohol and drug use on violent behavior; program and policies concerning the treatment of mentally disorder persons; substantive methodological issues measuring mental illness.

454 Special Topics in Criminal Justice (4)

Current topics of special interest in Criminal Justice as announced in *Schedule of Classes*. May be repeated to maximum of 20 units of credit as topic changes.

483 Computer Techniques in Criminal Justice (4)

Prerequisite: Upper division standing. Computer applications for criminal justice agencies: data types, collection, and format development. Use of programs to abstract and analyze data.

491 Contemporary Studies in Criminal Justice (1–8)

Prerequisite: Upper division standing or professional experience (with instructor consent). Investigation and study of contemporary problems in field. Various subjects as announced. May be repeated for 8 units as subject matter changes.

492 Advanced Criminal Justice Theory and Practice (4)

Prerequisites: Senior standing and successful completion of CRIM 301. Capstone for Criminal Justice majors; Examination of the major issues, themes, theories and research findings with emphasis on relationships with each other, integrating ideas and effects on discipline. Senior thesis required.

499 Undergraduate Directed Study (1–4)

Prerequisites: Upper division standing, 2.5 grade point average; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 8 units.

Graduate Level Courses (CRIM)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: CRIM499

Classified graduate standing is required for admission to all 500-level courses.

501 Seminar: Administration of Justice (4)

Structures, function and operations of criminal justice agencies, including the police, the courts, and corrections, within the overall context of the criminal justice system.

506 Seminar: Comparative Criminal Justice Administration (4)

Comparison of criminal justice systems of world, past and present: American systems, national, state, county, and municipal levels; military police systems; organizations, practices, and trends.

511 Principles of Research (4)

Prerequisite: CRIM 430. Methodology, research strategy, question development, and research ethics. Detailed review of methods appropriate for criminal justice.

512 Quantitative Applications (4)

Prerequisites: CRIM 511, upper division undergraduate statistics course and familiarity with operations of personal computers. Statistical methods as applied to problems in crime and criminal justice: data description, data analysis, hypothesis testing, and inference using packaged statistical programs.

513 Qualitative Approaches (4)

Prerequisite: CRIM 511. Advanced principles and methods related to qualitative research methods appropriate for criminal justice; data collection, interpretation, coding and dissemination; ethical issues unique to criminal justice settings.

530 Theories and Perspectives in Criminal Justice (4)

Prerequisite: CRIM 303. Functions of theory building and testing as fundamental parts of scientific method in criminal justice; examination and evaluation of selected theories from sociological, psychological and behavioral perspectives.

538 Seminar: Criminal Justice Problems (4)

Advanced investigation and reports on selected critical problems in criminal justice; emphasis on scientific method and acquaintance with reliable methods of research.

551–553 Advanced Criminalistics I, II, III (4, 4-4)

Methods of scientific analysis, comparison, identification, and individualization of physical evidence and its presentation in court. Lecture 2 hours, laboratory 6 hours.

551: Prints and imprints, tool marks, weapons, bullets, and cartridges.

552: Microscopic evidence, textile fibers, clothing and cloth, ropes, cordage and packing materials, cosmetics, crystalline evidence, paint, glass, soil, metals, and plastics.

553: Hair, blood, biological fluids, blood alcohol, arson evidence, bombs, and explosives.**554 Identification of Modern Drugs (4)**

Prerequisite: Instructor consent. Nature, therapeutic action, toxicology, chemical and physical identification of modern drugs; drug nomenclature; scientific, official, and trade names; drug classifications.

555 Questioned Document Analysis (4)

Prerequisite: Instructor consent. Analysis of handwriting, typewriting, inks, paper, forgeries, alterations, erasures; use of photographic, microscopic, infrared, and ultraviolet light equipment; presentation of evidence in court. Lecture and demonstration.

556 Seminar: Special Problems in Criminalistics (4)

Prerequisite: Instructor consent. Inquiry in depth into criminalistics, with emphasis on homicide and major crime, literature of criminalistics field, correlation and synthesis of different methods of approach to criminalistics problems.

557 Legal Medicine in Criminalistics (4)

Prerequisite: Instructor consent. Correlation of findings of autopsy surgeon and criminalist; traumatic injuries, evaluation of wounds, time of death, rigor mortis, post mortem lividity; recognition of poison deaths.

590 Planning and Program Development (5)

Prerequisite: CRIM 530 and CRIM 538. Focus on planning, development and evaluation of programs in criminal justice.

595 Directed Field Work (1–4)

Prerequisites: Departmental approval, agency acceptance. Supervised individual field experience in an applied area of criminal justice. May be repeated to maximum of 8 units. Graded CR/NC.

596 Comprehensive Examination (0)

598 Graduate Directed Study (1–5)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics covering the criminal justice system; regular conferences with sponsor. May be repeated to maximum of 9 units; maximum of 12 units in combination of CRIM 499 and 598 may be applied toward degree.

599 Thesis (1–4)

Prerequisites: Consent of an approved thesis committee to act as sponsor, completion of appropriate forms, approval of department. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/NC.

Division of

Curriculum and Instruction

Charter School of Education

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Program Advisement provided for:

The Charter School of Education's Division of Curriculum and Instruction offers program advisement for master's degree programs in elementary and secondary teaching and for the basic and advanced credential programs approved by the California Committee on Accreditation. These programs are described in this section. Other general information about credentials and degree programs can be found in the *Undergraduate Study: General Information* and **Graduate and Postbaccalaureate Study: General Information** chapters of this catalog.

Courses Offered in:

- Curriculum and Instruction (EDCI)
- Elementary Education (EDEL)
- Secondary Education (EDSE)

Credentials Offered:

Multiple Subject CLAD/BCLAD; Single Subject CLAD/BCLAD; and Educational Specialist in Reading/Language Arts

Degrees Offered:

M. A. in Education: Option in Elementary Teaching with Concentrations in: Bilingual/Multicultural Education in the Elementary Classroom; Curriculum and Instruction in the Urban Elementary School; Early Childhood Education; Mathematics Education; Reading Language Arts in the Elementary Classroom; Science Education: M.A. in Education, Option in Middle and Secondary Curriculum and Instruction with Concentrations in: Practice and Action in the Social Context of Middle and Secondary Urban Schools; Crosscultural, Language and Academic Development; Content Area Specialization; Integrating Critical and Reflective Thinking Throughout the Curriculum; Language Arts/Literacy; Mathematics/Science Pedagogy; and, Instructional Technology: and, M.A. in Education: Option in Reading.

Certificates Offered:

Storytelling

The Faculty

Professors: T. Jean Adenika-Morrow, *Ralph Arroyo*, Alan N. Crawford, John Eichinger, J. Dennis Heim, Noriko S. Horgan, Dorothy L. Keane, Chogollah Maroufi, Andrea P. Maxie, Darlene M. Michener, Joan Sabrina Mims, Joy Morin, Alfredo Schifini, Norman Unrau, Judith M. Washburn.

Associate Professors: Ann Barbour, Herminia G. Cadenas, Cherie De Jong, Robert Land, Gay Yuen Wong.

Assistant Professors: Anna Chee, Carolyn Frank, Rosario Morales, Julie Quinn, Frederick Uy.

Emeriti: Constance E. Amsden, Ratna Appadurai, John M. Austin, Norman D. Berke, James A. Bolton, Harold C. Brown, Doris C. Ching, Earl W. Denny, Norman L. Ellenberg, Robert J. Forbes, Jewell L. Garner, Gloria S. Graham, Robert O. Hahn, John O. Jones, Dale L. Knapp, Aaron Kriegel, Roderick Langston, Raquel Montenegro, Donald A. Nielsen, June DeBode Oxstein, Anne M. Palmer, Edythe Rodriguez, Delwyn G. Schubert, Carol J. Smallenburg, Bernice B. Smith, Philip D. Vairo, Marian E. Wagstaff, Wanna M. Zinsmaster.

Admission to Credential Programs

Admission Requirements for Multiple Subject and Single Subject Credential Programs

Under current laws and regulations, the California Commission on Teacher Credentialing initially issues a credential, permit, or certification, or renewal of an emergency credential, only to persons to serve in the public schools who have demonstrated proficiency in basic reading, writing, and mathematics skills in the English language. The Superintendent of Public Instruction has adopted the California Basic Educational Skills Test (CBEST) as the state assessment instrument to measure teacher proficiency in the basic skills. Further information is available at the Charter School of Education Office of Student Services, KH D2078.

Admission requirements are based on *Title 5, California Code of Regulations*, and University regulations. Students seeking admission to Cal State L.A. teaching credential programs must enroll in EDCI 300AB, *The Teaching Profession: Education as a Career and Learners and Teachers in a Cultural Setting*. Requirements for preliminary admission to credential programs include the following:

- Complete application form.
- Record of oral interview with faculty adviser and completion of *Program Planning Sheet* (signed by adviser).
- Verification of academic eligibility, as evidenced by a grade point average at or above the median of undergraduate students in the candidate's academic major but in no case lower than 2.5. The grade point average is based on the cumulative work attempted at all campuses.
- Verification of negative TB test (taken within the last year) by a personal physician or at the Cal State L.A. Health Center.
- Verification of completion of PSY 150.
- Verification of having applied for the *Certificate of Clearance*.
- Successful completion of a supervised field experience.
- A written personal history that includes a statement of professional goals and educational philosophy.
- Transcripts and letters of reference received and evaluated.
- Students must complete all requirements to receive credit in EDCI 300AB.

Completion of Admission Requirements

Students must satisfy the following criteria before registering for any restricted courses.

- Minimum C grade in SPCH 150.
- Pass UNIV 400, *the Writing Proficiency Examination (WPE)*, or acceptable alternative by petition.
- Verification of having taken the CBEST. (Students who have not passed the CBEST prior to entry into the credential program must have an approved plan of remediation on file with the Office of Student Services in the Charter School of Education.)

Students are formally admitted to the teaching credential program upon completion of requirements stated above.

Admission Requirements for Multiple Subject CLAD/BCLAD and Single Subject CLAD/BCLAD Internship Credential Programs

- Employment or commitment by a school district to employ the individual as a full-time teacher.
- Completion of all requirements for admission to Preliminary Credential Programs.

Admission Requirements for Professional, Clear Multiple Subject CLAD/BCLAD and Single Subject CLAD/BCLAD Credential Programs

(for transfer students who hold a preliminary credential)

Students who complete the preliminary credential at Cal State L.A. may continue the study toward the professional clear credential without additional application to the Charter School of Education. Transfer students must meet the following requirements. State of California teaching credential requirements include a fifth year of study completed after the baccalaureate. Students may elect to complete all or part of their professional requirements in the fifth year and must follow a planned course of study approved by their adviser. In some instances, courses that are taken as part of a master's degree program may also count toward completion of the fifth year credential requirement. All students who desire University recommendation for completion of the clear credential *must be formally admitted to the University and satisfy any writing or speech requirements pertaining to all postbaccalaureate students*.

- Apply to the Charter School of Education Office of Student Services.
- Provide a copy of your valid Multiple Subject CLAD/BCLAD or Single Subject CLAD/ BCLAD credential.
- Verify a minimum 2.5 overall grade point average (in the last 90 quarter units attempted for your bachelor's degree).
- See an adviser for oral interview and to plan credential program.
- Provide official transcripts of all college/university work to the Charter School of Education Office of Student Services.
- Pass UNIV 400, *the Writing Proficiency Examination (WPE)*, or acceptable alternative by petition.

Directed Teaching Information

Directed teaching is one of the most important phases of teacher education at Cal State L.A. Candidates are not automatically admitted to directed teaching by completion of course work alone; they must fulfill the following criteria.

- Formal admission to the teaching credential program.
- Attendance at directed teaching orientation meeting by first week of quarter preceding the assignment.
- Application for directed teaching by application deadline (Wednesday of second week of quarter preceding the assignment).
- Submit verification of completion of a Commission-approved Multiple Subject matter program (for Multiple Subject credentials) or Single Subject matter program (for Single Subject credentials) or passing score on MSAT or PRAXIS/SSAT Series Subject Assessments and

recommendation of subject-area department. Approved Multiple Subject and Single Subject matter programs are listed in the *Undergraduate Study* chapter of this catalog.

- Provide transcripts or grade reports verifying completion of at least 12 units at Cal State L.A. and all prerequisite courses. A minimum grade point average of *B* (3.0) and grades of *C* or higher are required in all professional education courses.
- Submit verification of passing scores on all sections of CBEST.
- Present a Certificate of Clearance or a valid State of California credential at Office of Student Services, KH D2078.
- Submit verification of negative TB test taken within one year before completion of directed teaching by a personal physician or at Cal State L.A. Health Center.
- Register for *directed teaching* or *demonstration of competencies as appropriate*.

Applicants for multiple subject directed teaching must show proficiency in art, music, and physical education, either by examination or completion of appropriate courses. New transfer students must complete at least one curriculum course at Cal State L.A.

Applicants completing an area of specialization in special education must be approved by the Division of Special Education.

Students who meet all of the above criteria and who have completed the prerequisite course work will be approved for directed teaching. Because of the amount of time and work required for directed teaching, students are advised to restrict the number of units in their program and curtail their out-of-school workload for the duration of such assignments.

Please Note: In order for education methodology courses for the Multiple Subject CLAD/BCLAD credentials to apply, they must be completed within 7 years of the date of application for the preliminary credential.

Supplementary Authorizations

Holders of a Single Subject CLAD/BCLAD or Multiple Subject CLAD/BCLAD credential issued by the state of California may add a supplemental authorization to teach in another discipline by completing additional course work. Interested students should consult the Charter School of Education Office of Student Services for further information.

Application Procedure for the Preliminary or Professional Clear Credential

By the end of the fifth week of your final quarter of credential course work, submit an application for the credential in the Office of Student Services, King Hall D2078.

Elementary Education Programs

Elementary Education programs include courses appropriate for preservice and inservice preparation of teachers in the elementary grades and directed teaching for candidates for the teaching credential with authorization in multiple subject instruction. The Master of Arts degree is described in the *Graduate Programs* section.

CLAD/BCLAD Multiple Subject Credential (Elementary Teaching)

The teaching credential with authorization in multiple subject instruction qualifies holders to teach in any self-contained classroom, preschool or kindergarten, grades 1 through 12, or in classes organized primarily for adults.

Requirements for Preliminary Credentials

Applicants must satisfy the following criteria to qualify for the University-recommended credential:

- A bachelor's degree from a regionally accredited college or university.
- Passing score on CBEST.
- Formal admission to credential program including fulfilling all EDCI 300AB requirements; complete professional education requirements listed below. See *Admission to Credential Programs and Directed Teaching* information earlier in this chapter.
- Verification of completion of a Commission-approved multiple subject matter program (see listings in *Undergraduate Study* chapter) or passing score on Multiple Subject Assessment for Teachers (MSAT), and verification of subject matter competence by subject-area department.

- Pass UNIV 400, the Writing Proficiency Examination (WPE), or acceptable alternative by petition.
- Minimum *C* grade in MATH 120 or equivalent.
- Fulfillment of U.S. Constitution requirement.
- Pass Reading Instruction Competence Assessment (RICA).

Preliminary Multiple Subject Credential with BCLAD Emphasis

The BCLAD emphasis qualifies holders to teach in bilingual Spanish self-contained classrooms at preschool, kindergarten, and grade 1 to 12 levels or in classes organized primarily for adults. In addition to requirements for the Multiple Subject BCLAD credential, candidates must fulfill the following requirements:

Additional requirements for CLAD emphasis:

9 units of foreign language or equivalent

Additional requirements for BCLAD emphasis:

- Must substitute EDEL 415S, 416S, 417S, 418S and 419 for EDEL 415, 416, 417, 418 and 419.
- Foreign Language Proficiency Examination (FL 902).
- Culture Test.
- Demonstrate spoken and written fluency in Spanish.
- Demonstrate knowledge of and sensitivity to the culture of Chicano children.

Students who select BCLAD emphasis are required to enroll in special sections of the following curriculum and methods courses in elementary education.

EDEL 415S	Proseminar: Curriculum and Teaching of Reading (4)
EDEL 416S	Proseminar: Curriculum and Teaching of Writing/Language Arts (4)
EDEL 417S	Proseminar: Curriculum and Teaching of Mathematics (4)
EDEL 418S	Proseminar: Curriculum and Teaching of Science (4)
EDEL 419S	Proseminar: Curriculum and Teaching of Social Science (4)

Emphasis in these courses is given to meeting the special needs of Spanish bilingual children. Students must complete the directed teaching assignment in a bilingual/bicultural classroom.

Professional Education Requirements (49 units)

EDEL 415 or 415S*	Proseminar: Curriculum and Teaching of Reading (4)
EDEL 416 or 416S*	Proseminar: Curriculum and Teaching of Writing/Language Arts (4)
**EDEL 417 or 417S*	Proseminar: Curriculum and Teaching of Mathematics (4)
**EDEL 431	Teaching of Mathematics in the Middle School (4)
**EDEL 418 or 418S*	Proseminar: Curriculum and Teaching of Science (4)
**EDEL 419 or 419S*	Proseminar: Curriculum and Teaching of Social Science (4)
**EDEL 403	Directed Teaching I: Multiple Subjects (12) or
**EDEL 489	Demonstration of Instructional Competencies (12)
**EDEL 405	Proseminar: Language Development In the Elementary Classroom (3)
EDEL 414	Classroom Management (3)
EDFN 413	Psychological Foundations of Education (4)
EDFN 414	Social Foundations of Education (3)

*Denotes course work in English/Spanish.

**Restricted courses-require completion of EDCI 300AB.

Additional Requirements:

Students must demonstrate competence in art, music, and physical education for elementary school, either through proficiency examinations or by successful completion of the following courses:

ART 400	Development of Literacy in Visual Arts (4)
MUS 400	Development of Perception in Musical Arts (4)
PE 420	Movement Experiences in Growth and Development (3)

Note: CLAD credential candidates must consult an adviser regarding the language requirement.

Preliminary Multiple Subject Credential with BCLAD Emphasis

The BCLAD emphasis qualifies holders to teach in bilingual Spanish self-contained classrooms at preschools, kindergarten, and grade 1 to 12 levels or in classes organized primarily for adults. In addition to requirements for the Multiple Subject BCLAD credential, candidates must fulfill the following requirements.

Additional requirements for CLAD emphasis:

9 units of foreign language or equivalent.

Additional requirements for BCLAD emphasis:

- Must substitute EDEL 415S, 416S, 417S and 419S for EDEL 415, 416, 417, 418 and 419.
- Foreign Language Proficiency Examination (FL 902).
- Culture Test.
- Demonstrate spoken and written fluency in Spanish.
- Demonstrate knowledge of and sensitivity to the culture of Chicano children.

Students who select BCLAD emphasis are required to enroll in special sections of the following curriculum and methods courses in elementary education:

EDEL 415S	Proseminar: Curriculum and Teaching of Reading (4)
EDEL 416S	Proseminar: Curriculum and Teaching of Writing/Language Arts (4)
EDEL 417S	Proseminar: Curriculum and Teaching of Mathematics (4)
EDEL 418S	Proseminar: Curriculum and Teaching of Science (4)
EDEL 419S	Proseminar: Curriculum and Teaching of Social Science (4)

Emphasis in these courses is given to meeting the special needs of Spanish bilingual children. Students must complete the directed teaching assignment in this option in bilingual/crosscultural classroom.

Professional Clear Multiple Subject CLAD/BCLAD Credential Requirements

Applicants must fulfill the following requirements to qualify for the University-recommended credential:

- Satisfy requirements for the preliminary credential.
- Satisfy requirements for admission to fifth year, clear credential program.
- Complete a minimum of 45 units of postbaccalaureate work approved by an adviser, including at least 16 units in residence and a maximum of 9 units in approved extension courses.
- Satisfy the state requirement for course work in reading and in health education (including nutrition and the study of physiological and sociological effects of use of dangerous drugs, narcotics, alcohol, and tobacco).
- Satisfy the mainstream of students with disabilities requirement by completing EDSP 400.
- Satisfy the state requirement for knowledge of computers and their uses in education by completing EDIT 430 *or* an appropriate introductory computer course (CS 160) plus EDIT 447.
- Every applicant for the initial clear Multiple or Single Subject CLAD/BCLAD Credential or initial clear Designated Subject Teaching Credential must complete approved level B training in Cardiopulmonary Resuscitation (CPR).

Internship Credential Requirements

The internship credential program is designed for individuals who are employed as full-time teachers by cooperating school districts, have fulfilled all district and University prerequisites, and have been recommended by the district. The credential is issued for a two-year period during which candidates must fulfill all requirements for the preliminary or professional clear credential.

Preliminary Internship Credential Requirements

Applicants must satisfy the following criteria to qualify for the University-recommended internship credential.

- A bachelor's degree from a regionally accredited college or university.
- Job offer from a cooperating school district.
- Passing score on the CBEST.
- Formal admission to credential program including completing EDCI 300AB requirements; complete professional education requirements given below. See *Admission to Credential Programs and Directed Teaching Information* earlier in this chapter.
- Verification of completion of a Commission-approved multiple subject matter program (see listings in *Undergraduate Study chapter*) or passing score on the Multiple Subject Assessment for Teachers (MSAT) and verification of subject matter competence by subject area department (i.e., department of student undergraduate major.)
- Pass UNIV 400, the Writing Proficiency Examination (WPE) or acceptable alternative by petition.
- Satisfy the U.S. Constitution requirement.
- Minimum C grade in MATH 120 or equivalent.

Requirements for the Preliminary CLAD/BCLAD for those who hold an Internship Credential

EDEL 415 or 415S*	Proseminar: Curriculum and Teaching of Reading (4)
EDEL 416 or 416S*	Proseminar: Curriculum and Teaching of Writing/Language Arts (4)
EDEL 417 or 417S*	Proseminar: Curriculum and Teaching of Mathematics (4)
EDEL 418 or 418S*	Proseminar: Curriculum and Teaching of Science (4)
EDEL 419 or 419S*	Proseminar: Curriculum and Teaching of Social Science (4)
EDEL 405	Proseminar: Language Development in the Elementary Classroom (3)
EDEL 489	Demonstration of Instructional Competencies (12, 12)
EDFN 413	Psychological Foundations of Education (4)
EDFN 414	Social Foundations of Education (3)

*Denotes course work in English/Spanish.

Additional requirement for CLAD Emphasis:

- 9 units of foreign language equivalent.

Additional requirements for BCLAD Emphasis:

- Must substitute EDEL 415S, 416S, 417S, 418S, and 419S for EDEL 415, 416, 417, 418, and 419.
- Culture Test

Requirements for the Professional Clear CLAD/BCLAD Internship Credential

EDCI 535	Instructional Strategies for Teaching Cultural Awareness (4)
EDEL 590	Problems in Classroom Group Behavior (4)
EDIT 430	Introduction to Computers and Their Uses in the Classroom (4)
EDSP 400	Foundations of Special Education (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition, and Tobacco (4)

Cardiopulmonary Resuscitation (CPR) training

Secondary Education Programs

The Secondary Education programs include courses appropriate for preservice and inservice teacher preparation in middle schools, junior high schools, senior high schools. The Master of Arts degree is described in the Graduate Programs section.

Single Subject CLAD/BCLAD Credential (Secondary Teaching)

The teaching credential with authorization in single subject instruction qualifies holders to teach in their authorized field at any grade level, preschool, kindergarten, and grades 1 through 12, or in classes organized primarily for adults. Eleven categories of single subject instruction are defined by state legislation as follows: agriculture, art, business, English, health science, industrial and technological education, languages (including, but not limited to, Chinese, French, German, Russian, and Spanish), life science, mathematics, music, physical education, and social science.

Students considering pursuing a Single Subject CLAD/BCLAD credential are urged to obtain advisement at the start of the program from faculty advisers in their academic area and in

Secondary Education. Candidates may enroll in programs leading to the preliminary/clear or the internship credential (see an adviser about admission requirements and enrollment limitations).

Preliminary Credential Requirements

Applicants must satisfy the following criteria to qualify for the University-recommended credential:

- A bachelor's degree from regionally accredited college or university.
- Passing score on CBEST.
- Formal admission to credential program including completing EDCI 300AB requirements; complete professional education requirements given below. See *Admission to Credential Program and Directed Teaching information* earlier in this chapter.

- Verification of completion of a Commission-approved single subject matter program (see listings in *Undergraduate Study* chapter) or passing score on CTC-approved subject matter assessments, and verification of subject matter competence by subject-area department (i.e., department of student's undergraduate major).
- Pass UNIV 400, *the Writing Proficiency Examination (WPE)*, or acceptable alternative by petition.)
- Fulfill the U.S. Constitution requirement.

Professional Education Requirements (47 units)

- EDFN 413 Psychological Foundations of Education (4)
 EDFN 414 Social Foundations of Education (3)
 EDSE 401 or 401S* Instructional Strategies: Secondary Teaching (4)
 EDSE 415 Classroom Management in Secondary Schools (4)
 **EDSE 430 Using ESL Techniques in the Content Areas (3)

The following are **restricted** courses and require completion of EDCI 300AB and admission into the credential program:

- **EDSE 421 Special Instructional Methods in Secondary School Subjects (3)
 EDSE 423 or 423 S* Teaching Reading in Secondary Schools (4) (Prerequisite: EDSE 401)
 EDSE 442AB Directed Teaching in Secondary Schools (11, 11) or
 EDSE 489 Demonstration of Instructional Competencies (11,11)

* Course work in English/Spanish

** May be taken concurrently with EDSE 442A, 442B or 489

Additional requirements for CLAD Emphasis:

9 units of foreign language or equivalent.

Additional requirements for BCLAD Emphasis:

- Must substitute EDSE 401S and 423S for EDSE 401 and 423.
- Foreign Language Proficiency Examination (FL 902).
- Culture Test.

Professional Clear Single Subject CLAD/BCLAD Credential Requirements

Applicants must satisfy the following criteria to qualify for the University-recommended credential:

- Requirements for the preliminary credential.
- Requirements for admission to fifth year, clear credential program.
- Minimum of 45 units in postbaccalaureate study approved by an adviser, including at least 16 units in residence and a maximum of 9 units in approved extension courses.
- Satisfy the state requirement for knowledge of computers and their uses in education by completing EDIT 430 or an appropriate introductory computer course (CS 160) plus EDIT 447.

- State requirement for course work in reading and in health education (including nutrition and the study of physiological and sociological effects of use of dangerous drugs, narcotics, alcohol, and tobacco).
- Mainstream of students with disabilities requirement (EDSP 400).
- Every applicant for the initial clear Multiple or Single Subject CLAD/BCLAD Credential or initial clear Designated Subject Teaching Credential must complete approved Level B training in Cardiopulmonary Resuscitation (CPR).

Internship Credential Requirements

The internship credential program is designed for individuals who are employed as full-time teachers by cooperating school districts, who have fulfilled all district and University prerequisites, and who have been recommended by the district. The credential is used for a two-year period. During that time, candidates must fulfill all requirements for the preliminary or professional clear credential. Applicants must satisfy the following criteria to qualify for the University-recommended internship credential.

- A bachelor's degree from a regionally accredited college or university.
- Job offer from a cooperating school district.
- Passing score on CBEST.
- Formal admission to credential program including completing EDCI 300AB requirements; complete professional education requirements given below. See *Admission to Credential Programs and Directed Teaching Information* earlier in this chapter.
- Verification of completion of a Commission-approved Single Subject matter program (see listings in *Undergraduate Study* chapter) or passing score on CTC approved subject assessments and verification of subject matter competence by subject-area department (i.e., department of student's undergraduate major).
- Satisfy the U.S. Constitution requirement
- Pass UNIV 400, *the Writing Proficiency Examination (WPE)*, or acceptable alternative by petition.

Preliminary CLAD/BCLAD Internship Credential Requirements

Internship Option—46 units

- EDFN 413 Psychological Foundations of Education (4)
 EDFN 414 Social Foundations of Education (3)
 EDSE 401 or 401S* Instructional Strategies: Secondary Teaching (4)
 EDSE 415 Classroom Management in Secondary Schools (4)
 EDSE 421 Special Instructional Strategies: Methods in Secondary School Subjects (4)
 EDSE 423 or 423S* Teaching Reading in Secondary Schools (4)
 EDSE 489 Demonstration of Instructional Competencies (8,8,8)

*Denotes course work in English/ Spanish.

Requirements for Professional Clear CLAD/BCLAD Internship Credential

EDCI	535	Instructional Strategies for Teaching Cultural Awareness (4)
EDIT	430	Introduction to Computers and Their Uses in Classrooms (4)
EDSE	430	Using ESL Techniques in the Content Areas (3)
EDSP	400	Foundations of Special Education (4)
HS	456	Health Studies on Alcohol, Narcotics, Nutrition, and Tobacco (4)

Note: Students who are enrolled in the Internship Credential program are encouraged to enroll concurrently in the M.A. degree program in Education, Middle and Secondary Curriculum and Instruction option. See a faculty adviser about additional requirements.

Supplementary Authorizations

Holders of a Single Subject or Multiple Subject CLAD/BCLAD credential issued by the state of California may add a supplemental authorization to teach in another discipline by completing additional course work. Interested students should consult the Charter School of Education Office of Student Services for further information.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Education: Option in Elementary Teaching Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a California credential or a general elementary or kindergarten-primary credential issued

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses. A comprehensive examination is required except for students selecting the Science Education concentration who may choose to take the comprehensive examination or complete either a thesis or project after consulting an advisor. Students who intend to register in courses they wish to apply on a master's degree should consult an adviser prior to registration. There is a limit on credit that may be earned in variable-unit courses. See *Restrictions on Credit Earned in Variable Unit Courses* in the **Charter School of Education** section in the **Academic Programs: School-based and University-wide chapter in the catalog.**

Required Core (12 units)

EDCI	560	Principles and Practices of Curriculum Development (4)
EDEL	589	Seminar: Elementary Education (4)
EDFN	500	Evaluation of Educational Research (4)

Areas of Concentration -

Select one area of concentration. (33-36 units)

Bilingual/Multicultural Education in the Elementary Classroom (33 units)

Select 4 units from the following:

EDEL	411, 421, 431, 441, 451
TESL	562

Select 8 units from the following:

EDCI	521, EDEL 531, 541, 551
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Select 12 units from the following:

EDCI	423, 453, 455, 536, 539, 549
EDEL	413,
TESL	560

Electives - Select 9 units with adviser approval:

Curriculum and Instruction in the Urban Elementary School (33 units)

Directed Electives - Select 8 units from the following:

EDEL	421	Teaching Language Arts in Elementary School (4)
or		
EDEL	525	Reading/Language Arts Across the Curriculum (4)
EDEL	431	Teaching Mathematics in Middle Schools (4)
EDEL	432	Teaching Mathematics for Early Childhood (4)
EDEL	441	Teaching Social Studies in Elementary School (4)
EDEL	451	Teaching Science in Elementary School (4)

Select 8 units from the following:

EDCI	521
EDEL	531, 541, 551

Select 8 units from the following:

EDCI	453	Teaching in Bilingual/Crosscultural Schools (4)
EDCI	535	Teaching for Cross-Cultural and Global Awareness (4)
EDCI	539	Instructional Strategies for Inner City Schools (4)
EDCI	583	Application of Hypermedia in Instruction (4)
EDEL	590	Discipline and Classroom Management (4)

Electives – Select 9 units from the following:

EDCI	527	Seminar: Issues and Trends in Using of Children's Literature (4)
EDEL	427	Using Children's Literature in Elementary Classrooms (4)
EDEL	473	Storytelling for Teachers (4)
EDEL	480	Teaching Problem Solving with LOGO (4)

Early Childhood Education (33 units)

Required (24 units) – Select from the following:

EDCI	527	Seminar: Issues and Trends in Using of Children's Literature (4)
EDEL	432	Teaching Mathematics for Early Childhood (4)
EDEL	461	Curriculum Procedures and Materials for Early Childhood Education (4)
EDEL	462	Dynamics of Play (4)
EDEL	466	Cultural Diversity in Early Childhood Classroom: Needs and Opportunities (4)
EDEL	473	Storytelling for Teachers (4)
EDEL	560	Design and Management of Early Childhood Public Educational Programs (4)
EDEL	563	Seminar: Issues and Trends in Early Childhood Education (4)

Directed Electives

Select a minimum of 9 units from the following:

- EDCI 583 Application of Hypermedia in Instruction (4)
- EDEL 421 Teaching Language Arts in Elementary School (4)
- EDEL 427 Using Children's Literature in Elementary Classroom (4)
- EDEL 480 Teaching Problem Solving with LOGO (4)
- EDCI 521 Seminar: Research in Teaching Reading/Language Arts (4)
- EDEL 525 Reading/Language Arts Across the Curriculum (4)
- EDSP 416 Working with Families of Young Handicapped Children (4)
- EDSP 515 Planning Programs for Exceptional Infants and Young Children (4)
- CHDV 422 Administration of Preschool and Day Care Programs (5)
- CHDV 423 Parenting (4)

Mathematics Education (33 units)**Required Courses (12 units)**

EDEL 431, 432, 531

Directed Electives

Select 13 units from the following:

- EDCI 583 Application of Hypermedia in Instruction (4)
- EDEL 433A Special Topics in Mathematics for Elementary Teachers: Metric Measurement(1)
- EDEL 433B Special Topics in Mathematics for Elementary Teachers: Problem Solving (1)
- EDEL 433C Special Topics in Mathematics for Elementary Teachers: Geometry (1)
- EDEL 433D Special Topics in Mathematics for Elementary Teachers: Logic (1)
- EDEL 435 Use of Calculator in Teaching Mathematics (2)
- EDEL 480 Teaching Problem Solving with LOGO (4)
- EDEL 535 Seminar Assessment Strategies in Mathematics (4)
- EDEL 580 Computer Applications for Teaching Mathematics and Science (2)

Electives (8 units)

You may select courses in the directed electives section that were not selected, other electives with adviser approval, or from the following:

- EDEL 451 Teaching Science in Elementary School (4)
- EDEL 551 Seminar: Research in Teaching Elementary School Science (4)
- EDEL 590 Discipline and Classroom Management (4)

Other Electives - Select with adviser approval.**Reading and Language Arts in the Elementary Classroom (33 units)****Required Core (12 units)**

- EDCI 423 Principles and Practices of Teaching Writing in the Schools (4)
- EDCI 521 Seminar: Research in Teaching Reading Languages Arts (4)
- EDEL421 Teaching Language Arts in Elementary School (4)

Directed Electives

Select 8–16 units from the following:

- EDCI 522 Diagnosis and Remedial Reading/Language Arts Procedures (4)
- EDCI 527 Seminar: Issues and Trends in Using of Children's Literature (4)
- EDCI 549 Developing English Reading/Language Arts Skills in Bilingual/Crosscultural Individuals (4)
- EDEL 413 Children's Reading Materials in Spanish (4)
- EDEL 427 Using Children's Literature in the Elementary Classroom (4)
- EDEL 473 Storytelling for Teachers (4)
- EDEL 525 Reading/Language Arts Across the Curriculum (4)
- EDEL 594 Special Topics in Elementary Education: Research in Storytelling (4)

Suggested Electives (4-8 units)

You may select courses in the directed electives section that were not selected, other electives with adviser approval, or from the following:

- EDCI 583 Application of Hypermedia in Instruction (4)
- EDEL 590 Discipline and Classroom Management (4)

Comprehensive Examination (0 units)

Required for all areas of concentration except Science Education

- EDEL 596 Comprehensive Examination (0)
- Students should expect to take the comprehensive examination (EDEL 596) the quarter they complete all course work on their program and must comply with school and division requirements.

Science Education (33 to 36 units)**Required Courses (24 units)**

- EDEL 452 Developing Critical Thinking Through Science, K-7 (4)
- EDEL 551 Research in Teaching Elementary Science (4)
- EDEL 552 Scientific Processes and Authentic Assessment Strategies, K-7 (4)
- EDEL 553 Environmental Science Education for Urban Settings, K-7 (4)
- NS 461 Topics in Physical Science Content and Pedagogy (4)
- NS 462 Topics in Life Sciences Content and Pedagogy (4)

Directed Electives

Select 12 units from the following:

- EDEL 451 Teaching Science in Elementary School (4)
- EDEL 454 The Science, Technology, and Society Curriculum, K-7 (4)
- EDEL 554 Research in Thematic Science: Integrating Language Arts, K-7 (4)
- EDEL 555 Seminar: Teaching Middle School Science Research, 4-7 (4)

Suggested Electives, or others with advisor's approval

Select 5-8 units

- EDCI 453 Teaching Bilingual/Cross-Cultural Schools (4)
- EDEL 441 Teaching Social Studies in Elementary School (4)
- EDEL 525 Reading/ Language Arts Across Curriculum (4)
- EDEL 531 Seminar: Research in Teaching Elementary Mathematics (4)
- EDEL 590 Discipline and Classroom Management (4)

Comprehensive Examination, or Thesis, or Project (0, 7 units)

(Students selecting the Science Education concentration may choose the comprehensive exam or a thesis or a project after consultation with an advisor.)

- EDCI 596 Comprehensive Examination (0) **or**
 EDCI 599A Thesis or Project Planning (3) **and**
 EDCI 599B Thesis or Project (2) **and**
 EDCI 599C Thesis or Project (2)

Master of Arts Degree in Education: Option in Middle and Secondary Curriculum and Instruction

The Master of Arts degree: Option in Middle and Secondary Curriculum and Instruction provides educators with the opportunities for the development of skills and knowledge to conduct inquiry, to design curriculum and instructional programs, to implement programs, and to assess the success of those programs at the middle and secondary school levels.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must possess a 2.75 grade point average in the last 90 quarter units attempted.

Overview for Course Study (47 Units)

All candidates for the M.A. degree will complete the introductory seminar and required core courses. Students will select an area of concentration early in their course of study. All students will pass a comprehensive examination or complete a thesis or project. A minimum of 47 units is required for the M.A. degree. Before completion of the degree program, students must have a teaching credential and classroom teaching experience.

Required Introductory and Core Courses (28 units)

Introductory Course (4 units)

- EDSE 500 Introductory Seminar: Reflections on Teaching (4)

Core Courses (24 units)

- EDFN 452 Statistics in Education (4)
 And one of the following:
 EDFN 500 Evaluation of Education Research (4) **or**
 EDFN 553 Educational Research and Decision Making (4)
 And the following four courses:
 EDCI 415 Teaching for Thinking (4)
 EDCI 560 Principles and Practices of Curriculum Development (4)
 EDSE 590 Teaching in Multicultural Middle and Secondary Classrooms (4)
 EDCI 583 Application of Hypermedia in Instruction (4)

Requirements for the degree also include completion of Area of Concentration (12 units) and the Comprehensive Examination or Thesis or Project (7 units)

- EDSE 596 Comprehensive Examination (3 units, first quarter; 4 units second quarter) **or**
 EDCI 599A Thesis or Project Planning (3) **and**
 EDCI 599B Thesis or Project (2) **and**
 EDCI 599C Thesis or Project (2)

Areas of Concentration (12 units)

Select one of the following concentrations:

Concentration One:

Practice and Action in the Social Context of Middle and Secondary Urban Schools

Select **12 units** from the following:

- EDCI 453 Teaching in Bilingual/Cross cultural Schools (4)
 EDCI 504 Alternative Systems in Education (4)
 EDCI 536 Crosscultural Studies Material for Classroom Use (4)
 EDFN 510 Learning Theory and Education (4)
 EDFN 525 Educational Sociology (4)

Concentration Two:

Crosscultural, Language and Academic Development (This option leads to CLAD Certification)

Select a minimum of **12 units** with at least one course from each of the three following domains of knowledge and skill:

1. Language Structure and L1 and L2 Development.

- EDCI 549 Literacy for Bilingual Students (4)
 TESL 560 Theories of Teaching and Learning Second Languages (4)

2. Methodology of Bilingual , English Language Development, and Content Instruction.

- EDSE 430 Using ESL Techniques in the Content Areas (3)
 TESL 562 Methods for Teaching Second Languages I (4)

3. Culture and Cultural Diversity.

- EDSE 590 Teaching in Multicultural Middle and Secondary Classrooms (4) (A core requirement) **or**
 EDCI 535 Teaching for Crosscultural and Global Awareness (4)

Students seeking CLAD certification must have taken nine units of foreign language or the equivalent.

Concentration Three:

Content Area Specialization

Select **12 units** of advanced coursework in a single subject area of specialization. Selection is limited to those disciplines or subject areas in which CSLA offers credentials, such as English, Social Sciences, Mathematics, Natural Sciences, Foreign language, Art, Music, Physical Education, etc.

Concentration Four:

Integrating Critical and Reflective Thinking Throughout the Curriculum.

In this area of concentration, students undertake coursework, projects, and research to enlarge their theoretical and strategic knowledge of teaching that has the integration and growth of thinking as its primary focus.

Candidates complete the following courses (**12 units**) in philosophy that focus on the development of critical thinking:

- PHIL 480 Philosophy of Language (4)
 PHIL 485 Philosophy of Science (4)
 PHIL 580 Seminar: Critical Thinking Models and Strategies (4)

Concentration Five:**Language Arts/Literacy**

In this area of concentration, students investigate theory and practice in the language arts at the middle and secondary levels. Includes study of advanced techniques for integrating discussion, listening, reading, and writing into the language arts curriculum.

Select **12 units** from the following:

- EDCI 423 Principles and Practice of Teaching Writing (4)
- EDCI 513 Reading as a Cognitive Process (4)
- EDCI 521 Seminar: Research In Teaching Reading/Language Arts (4)

Concentration Six:**Mathematics/Science Pedagogy**

In this area of concentration, students will undertake course work, projects and research to enlarge their theoretical and practical knowledge of mathematics and science instruction in middle and secondary schools.

Select **12 units** from the following:

- EDCI 584 Learning Theories and Cognitive Science in Math Education (4)
- EDSE 428C Processes of Science (4)
- EDEL 431 Teaching Mathematics in Middle School (4)
- EDEL 433ABCD Special Topics in Mathematics (1 each)
- EDEL 435 Use of Hand Calculators in Teaching Mathematics in Elementary Classrooms (4)
- EDEL 480 Teaching Microcomputing in Schools (4)
- EDEL 531 Seminars: Research in Teaching Elementary School Subjects (4)
- EDEL 580 Computer Applications for Teaching Mathematics and Science (2)
- EDSE 594 Selected Studies in Secondary Education (Mathematics) (4)

Concentration Seven:**Instructional Technology**

Candidates selecting this area of concentration are encouraged to develop projects or pursue a thesis which entails the investigation and implementation of current technologies applicable to educational settings.

Select **12 units** from the following:

- EDEL 480 Teaching Problem Solving with Logo (4)
- EDIT 431 Advanced Computer Applications in Education (4)
- EDIT 484 Computer Authoring Tools (4)
- EDIT 550 Instructional Applications of Interactive Video (4)
- EDIT 554 Video Technology in Education (4)
- EDIT 556 Role of the Computer Specialist in Education (4)
- EDIT 557 Computer Assisted and Managed Instruction (5)
- EDIT 560 Internet and the World Wide Web in Education (4)

**Master of Arts Degree in Education:
Option in Reading**

The Master of Arts degree in Education, option in Reading, satisfies content requirements established by the International Reading Association for reading language arts specialists.

Admission to the Program

In addition to University requirements for admission to classified graduate standing, students must have a 2.75 grade point average in their last 90 quarter units attempted, must have a teaching credential, and must have completed a basic course in reading instruction (EDEL 400 or EDSE 423 or equivalent).

Two years of teaching experience are recommended for degree candidates; credential candidates must verify completion of intensive (minimum two years by the time the credential is granted) and extensive (minimum of two different levels with two different socioeconomic/ethnic groups) classroom teaching experience.

Requirements for the Degree (45 units)

A minimum of 45 units is required, including at least 23 in 500-level courses. All students must pass a comprehensive examination or submit a thesis or project. There is a limit on credit that may be earned in variable unit courses. See *Restriction on Credit Earned in Variable Unit Courses* earlier in this chapter.

Required Courses (29–31 units)

- EDCI 513 Reading as a Cognitive Process (4)
- EDCI 521 Seminar: Research in Teaching Reading/Language Arts (4)
- EDCI 522 Reading/Language Arts Assessment and Instruction for Classroom Teachers (4)
- EDCI 524 Reading/Language Arts Assessment and Instruction for Reading/Language Arts Specialists (5)
- *EDCI 540 Reading/Language Arts Clinical Practicum (2)
- EDCI 541 Field Work in Reading/Language Arts (4)
- EDFN 500 Evaluation of Educational Research (4)

*Repeat to total of 4–6 units

Directed Electives (3–4 units)

Select from the following:

- COMD 400
- COUN 532
- EDCI 527
- EDEL 413, 427, 525
- EDSP 400

Suggested Electives (10–13 units):

With adviser approval, these units may be selected from optional courses above not yet selected, or from the following, to complete a minimum of 45 units:

- COMD 450, 456, 461
- COUN 400AB, 501
- EDCI 455C, 455S, 549,
- EDFN 409, 452, 510, 530
- SPCH 494
- ENGL 400 or 401, 406, 430, 432
- PSY 412AB, 418AB, 420, 422
- TESL 560

Comprehensive Examination or Thesis or Project (0, 7 units)

EDCI 596 Comprehensive Examination (0) **or**
 EDCI 599A Thesis or Project Planning (3) **and**
 EDCI 599B Thesis or Project (2) **and**
 EDCI 599C Thesis or Project (2)

Students who select the comprehensive examination (EDCI 596) should expect to take it in the quarter in which they complete all course work on their program and must comply with school and division requirements. With careful planning, students earning this Master of Arts degree can also earn a Reading/Language Arts Specialist credential concurrently with the M.A. degree in Education, Reading option. Consult the Reading Program Coordinator for more information.

Reading/Language Arts Specialist Credential

The Reading/Language Arts Specialist credential program satisfies the current requirements established by the California Commission on Teacher Credentialing.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must meet the conditions for classified graduate standing and satisfy the following criteria:

- Complete EDEL 400 or EDSE 423, or an equivalent course in reading instruction.
- Complete ENGL 400 or 401 or equivalent.
- Possess a California Multiple Subject or Single Subject teaching credential or its equivalent.

Credential Requirements (45 units)

A total of 45 units of course work is required. With careful planning, students may earn the Master of Arts degree in Education: Option in Reading concurrently.

Required Courses (45 units)

EDCI 423 Principles and Practices of Teaching Writing in the Schools (4)
 EDCI 513 Reading as a Cognitive Process (4)
 EDCI 521 Seminar: Research in Teaching Reading/Language Arts (4)
 EDCI 522 Reading/Language Arts Assessment and Instruction for Classroom Teachers (4)
 EDCI 524 Reading/Language Arts Assessment and Instruction for Reading/Language Arts Specialists (5)
 EDCI 527 Seminar: Issues and Trends in Using Children's Literature (4) **or**
 EDEL 412 Emergent Literacy (4) **or**
 EDEL 413 Children's Reading Materials in Spanish (4) **or**
 EDCI 455C Methods of Teaching Reading in Chinese (4) **or**
 EDCI 455S Methods of Teaching Reading in Spanish (4)
 EDCI 540 Reading/Language Arts Clinical Practicum (2, 2)
 EDCI 541 Field Work in Reading/Language Arts (4)
 EDCI 549 Developing English Reading/Language Arts Skills in Bilingual/Crosscultural Individuals (4)
 EDEL 525 Reading/Language Arts Across the Curriculum (4)
 EDFN 500 Evaluation of Educational Research (4)

Additional Requirement

In addition to the above requirements, student must satisfy the following by the completion of their credential program:

- Have verified completion of intensive and extensive successful teaching experience; and
- Pass the Comprehensive Examination for the M.A. degree in Education, Option in Reading.

Certificate Program

Certificate Program in Storytelling

The certificate program in Storytelling is designed for persons with an interest in the techniques, theories, and literature associated with the ancient and modern art of storytelling. The certificate is especially valuable for teacher use in language arts instruction and for improving communications skills; it can also be used effectively by librarians and recreation leaders. This program is open to all postbaccalaureate students who meet the University requirements for admission to postbaccalaureate standing. It is applicable toward some master's degree programs in education and other fields. Completion of this credit certificate program requires 31 units in core and elective courses. Refer to the **Graduate and Postbaccalaureate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (31 units)

Required Courses (15 units)

EDEL 424 Methods of Using Creative Dramatics with Children (3)
 EDEL 473 Storytelling for Teachers (4)
 ENGL 430 Children's Literature (4)
 SPCH 490 Studies in Children's Speech Arts (4)

Field work (4 units)

EDEL 598 Graduate Directed Study (1–4) and/or
 SPCH 595 Graduate Performance (1–4)

Electives (12 units)

Select from the following:

ANTH 445
 CHS 420
 EDEL 413, 427
 TA 401

With adviser approval, students may include courses in the folklore of an ethnic culture.

List of Courses - Undergraduate Level

Curriculum and Instruction (EDCI)

Subcollegiate Course

093 Development of Study Skills: Reading (4)

Prerequisite: Recommendation of a counselor or an instructor. Developing reading study skills necessary for academic success at university level. Current general education textbook material used to reinforce college-level reading. *Graded CR/NC. May be repeated to maximum of 12 units. No credit toward baccalaureate.*

Upper Division Courses

300A The Teaching Profession: Education as a Career (1)

Prerequisite: Senior standing. Corequisite: Must be taken concurrently with EDCI 300B. Introduction to teaching as a professional career. Required of all students pursuing a California Teaching Credential. *Graded CR/NC.*

300B The Teaching Profession: Learners and Teachers in a Cultural Setting (1)

Prerequisite: Senior standing. Corequisite: Must be taken concurrently with EDCI 300A. Instruction to classroom as cultural setting. Minimum of 20 hours of scheduled participation in elementary/secondary public schools. Required of all students pursuing California Teaching Credential. *Graded CR/NC.*

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

415 Teaching For Thinking (4)

Perspectives and practices to integrate problem-solving, critical thinking, and the development of reflection and self-regulation into all content area course instruction.

Elementary Education (EDEL)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDEL 400, 415–419, 431, 465

400 Proseminar: Curriculum and Teaching of Reading/Language Arts (4 each)

Prerequisites: Admission to credential program; EDFN 413 (*may be taken concurrently*). Strategies for teaching reading and writing in various milieu, emphasizing reading skills and writing development. Field experience required. Offered in English or a second language as listed below.

400C Chinese

400K Korean

400S Spanish

402 Proseminar: Curriculum and Teaching of Social Science and Science (4 each)

Prerequisites: Admission to credential program; EDFN 413 (*may be taken concurrently*). Analysis, application and evaluation of strategies for teaching social science and science in various socioeconomic and cultural milieu. Laboratory experience provided. Offered in English or a second language listed below:

421 Advanced Educational Writing (4)

Prerequisite: ENGL 102. Principles and practice of educational written communication.

**Students Subject To Earlier Catalogs Satisfy The Prerequisite With ENGL 101 Or 190.*

423 Principles and Practices of Teaching Writing in the Schools (4)

Prerequisite: EDEL 400 or EDSE 423 or equivalent. Analysis of writing development and the teaching of written composition skills in K-12 grade students through writing process, writers' workshop, conferencing, various writing forms, and use of authentic evaluation procedures.

453 Teaching in Bilingual/Crosscultural Schools (4 each)

Prerequisite: Teaching credential. Specialized teaching techniques and materials for bilingual/crosscultural schools. School and community field assignments.

453C Chinese

453K Korean

453S Spanish

455 Methods of Teaching Reading in Target Language (4 each)

Prerequisites: Admission to bilingual/crosscultural credential program, including proficiency in target language at 300B level; EDFN 413 and either EDEL 400 or EDSE 423. Teaching reading, kindergarten through grade 12, in target language, to speakers of that language or to speakers of English in bilingual programs. Instruction partly in target language.

455C Chinese

455S Spanish

402C Chinese

402K Korean

402S Spanish

403 Directed Teaching I: Multiple Subject (12)

Prerequisites: See *Directed Teaching* requirements; EDEL 400, 401, 402; EDFN 413. On-site laboratory experience consisting of teaching multiple subjects under direction of University supervisor with cooperation of supervising classroom teacher(s). Concurrent weekly seminar. *Graded CR/NC.*

404 Directed Teaching II: Multiple Subject (12)

Prerequisites or corequisites: EDEL 403, EDFN 414. On-site laboratory experience teaching multiple subjects under direction of University supervisor with cooperation of supervising classroom teacher(s). Concurrent weekly seminar. *Graded CR/NC.*

405 Proseminar: Language Development in the Elementary Classroom (3)

Prerequisite or corequisite: EDFN 413. Analysis, application, evaluation of strategies for teaching language acquisition/language arts and related cultural aspects in elementary classrooms, including primary language development, ESL, and sheltered English strategies.

412 Emergent Literacy (4)

Basic concepts of emergent literacy, strategies for teaching beginning reading/writing, phonemic awareness, phonics and other word-attack skills, assessment, linguistic diversity, children's literature, and related legislative actions and initiatives.

413 Children's Reading Materials in Spanish (4)

Prerequisite: Proficiency in Spanish at 300B level. Spanish reading materials suitable for development or enrichment of reading at elementary level; oral and written language skills in bilingual/crosscultural classroom.

414 Elementary Classroom Management (3)

Identification, analysis and interventions for effective classroom management for pre-and in service teachers, grades K-6.

415 Proseminar: Curriculum and Teaching of Reading (4)

Analysis, application, and evaluation of strategies for teaching reading in various milieu, emphasizing comprehension, phonics and other decoding skills and strategies. Includes laboratory experiences in a field setting. Offered in English or a second language as listed below:

EDEL 415C Chinese

EDEL 415K Korean

EDEL 415 S Spanish

416 Proseminar: Curriculum and Teaching of Writing/Language Arts (4)

Prerequisite: EDCI 300AB. Analysis, application, and evaluation of teaching of writing and related language arts in various milieu, emphasizing skills and strategies addressing spelling, grammar, handwriting, linguistic, oral language, and listening. Includes laboratory experiences in a field setting. Offered in English or a second language listed below:

EDEL 416C Chinese

EDEL 416K Korean

EDEL 416S Spanish

417 Proseminar: Curriculum and Teaching of Mathematics (4)

Prerequisites: Admission to credential program, EDFN 413 (may be taken concurrently) and MATH 120 with grade of C or better or equivalent. Analysis, application and evaluation of strategies for teaching mathematics in various socioeconomic and cultural milieu. Laboratory experience provided. Offered in English or a second language listed below:

EDEL 417C Chinese

EDEL 417K Korean

EDEL 417S Spanish

418 Proseminar: Curriculum and Teaching of Science (4)

Prerequisite: Admission to credential program. Analysis, application, evaluation of strategies for teaching science in various socioeconomic and cultural milieu. Laboratory experience included. EDEL 418 S.

419 Proseminar: Curriculum and Teaching of Social Science (4)

Prerequisites: Admission to credential program, EDFN 413 (may be taken concurrently). Analysis, application, evaluation of strategies for teaching social science in various socioeconomic and cultural milieu. Laboratory experience provided. EDEL 419S Spanish

421 Teaching Language Arts in Elementary School (4)

Prerequisite: Teaching experience. Intensive study in teaching language arts in elementary school. Exploration, analysis, interpretation, and implementation of modern teaching trends and issues, with urban emphasis.

424 Methods of Using Creative Dramatics with Children (3)

Prerequisite: SPCH 490. Methods of using creative dramatics with elementary age children. A preservice or inservice course for librarians, teachers, recreation, and community leaders.

427 Using Children's Literature in Elementary Classrooms (4)

Survey, analysis, and utilization of elementary school-level children's books and other instructional materials in classrooms.

431 Teaching Mathematics in Middle Schools (4)

Mathematics content and methodology appropriate for students in middle schools; emphasis on problems specific to urban areas and on discovery-activity techniques.

432 Teaching Mathematics for Early Childhood (4)

Prerequisite: MATH 120 with minimum C grade or teaching experience. Professional course presenting methods and materials for teaching mathematics to children, prekindergarten through grade three.

433ABCD Special Topics in Mathematics for Elementary Teachers (1 each)

Prerequisite: EDEL 401. Instructional laboratory for elementary teachers; current strategies, materials, and terminology for teaching specific strands from Mathematics Framework for California public schools.

433A Metric Measurement**433B Problem Solving****433C Geometry****433D Logic****435 Use of Calculator in Teaching Mathematics (2)**

Prerequisite: EDEL 401. Laboratory that examines how the calculator can be used in teaching mathematics, with a special emphasis on problem solving.

441 Teaching Social Studies in Elementary School (4)

Prerequisites: EDEL 400, 401, 402; EDFN 413, 414. Exploration, analysis, and interpretation of modern teaching trends and issues in social studies, with an urban emphasis. Does not meet EDEL 400-401-402 requirement in professional education.

451 Teaching Science in Elementary School (4)

Prerequisite: Teaching experience. Intensive study in teaching science in elementary school; exploration, analysis, interpretation, and implementation of modern teaching trends, issues, and materials, with urban emphasis.

452 Developing Critical Thinking Through Science, K-7 (4)

Prerequisite: EDEL 402. Investigation of strategies and research in science education which assists children to develop critical thinking, problem solving strategies, and higher order thinking through science exploration and investigations. Includes 20 hours of laboratory.

454 The Science, Technology and Society Curriculum K-7 (4)

Prerequisites: EDEL 402,452. Exploration of how society uses the accumulated knowledge from science and other disciplines to control and alter the way things work, and it helps in understanding science and technology –related societal issues. Includes 20 hours of laboratory.

461 Curriculum Procedures and Materials for Early Childhood Education (4)

Prerequisite: EDFN 413 or PSY 412A. Curriculum, instructional procedures, and materials in early childhood education. Study of selected nursery schools and children's centers, including two hours per week of observation and participation.

462 Dynamics of Play (4)

Dynamics of group and individual play in children, focus on increased understanding of human development and behavior; Observation for two hours per week required.

463 Kindergarten-Primary Education (4)

Prerequisites: Admission to credential program; EDFN 413, EDEL 400, 401; 402 (may be taken concurrently). Principles, curriculum, methods and materials of instruction; teacher-parent relations; emphasis on inner city problems.

464 Prekindergarten Education in Metropolitan Areas (4)

Corequisite: EDFN 437. Selection of objectives, student population, curriculum content, materials and instructional procedures for teachers in public prekindergarten schools in various socioeconomic and cultural milieu.

465 Directed Teaching: Preschool (12)

Prerequisites: EDEL 461, 462; see Multiple Subject CLAD/BCLAD Credential with Prekindergarten Option requirements. Directed teaching for credential at preschool level. Graded CR/NC.

466 Cultural Diversity in Early Childhood Classroom: Needs and Opportunities (4)

Prerequisites: Enrollment in teacher education program (Elementary or Early Childhood Education); teaching experience with young children. Workshop involving crosscultural perspective on urban preschools, children's centers, primary grades in elementary school; role of cultural contributions of diverse communities in child's self-image and learning ability.

470AB Introduction to Elementary Curriculum (3, 3)

Prerequisites: COMD 456, 461. Overview of curriculum, methods, and materials used by elementary teachers in presenting reading, mathematics, and language arts. Meets needs of Communicative Disorders majors pursuing Special Class Authorization of Severe Language Handicapped and/or Aphasic Pupils. May not be used for Multiple Subject CLAD/BCLAD credential.

470A Reading**470B Mathematics and Language Arts****473 Storytelling for Teachers (4)**

Developing skills of storytelling, selecting appropriate literature, and including storytelling in the elementary school curriculum.

480 Teaching Problem Solving with LOGO (4)

Theory and methods for teaching the programming language LOGO, with emphasis on problem-solving. (Hands-on computer laboratory.)

488A,B,C Support Seminar in Field Experiences (4,4,4)

This seminar provides emergency and internship credential teachers with support in field experiences as they develop, implement, and modify instruction based on reflection about teaching practices. This course is restricted to students who have been admitted to the CSLA CLAD/BCLAD University Internship Program (CR/NC).

489 Demonstration of Instructional Competencies (12)

Prerequisite: Approval of division chair. Demonstration of competencies related to instructional skills specified for components leading to completion of approved credential, certificate, or degree program requirements. May be repeated for credit with division approval. Graded CR/NC.

490 Problems in Elementary Education (2–5)

Prerequisite: Instructor consent. Investigation of unique problems in elementary education. Specific topic announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

495 Strategies for Organizing Elementary Curriculum (4)

Prerequisites: EDSP 494, enrollment in teacher education or teaching credential program. Methods and materials that present an integrated curriculum, including learning centers and core curriculum, presented and discussed. Changes in classroom curriculum and environment to reflect focus on integrated curriculum including unit approach.

499 Undergraduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly and final report submitted. May be repeated for credit.

Secondary Education (EDSE)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

401 Instructional Strategies in Secondary Teaching (4)

Prerequisite or corequisite: EDCI 300AB. Skills and understandings required by prospective and beginning secondary school teachers for effective planning, implementation, and evaluation of instruction; analysis of special instructional and curricular problems in secondary schools.

401S Instructional Strategies in Secondary Teaching Spanish (4)

Prerequisite: SPAN 200C or 205B or equivalent. Prerequisites or corequisites: EDCI 300A, 300B. Skills and understandings required by prospective and beginning secondary school teachers for effective planning, implementation, and evaluation of Spanish/English bilingual instruction; analysis of special instructional and curricular problems in secondary schools.

415 Classroom Management in Secondary Schools (4)

Identification and resolution of classroom management and control problems in secondary high schools; study and application of selected strategies, teacher control techniques, and related research.

421 Instructional Methods for Secondary School Subjects (3 each)

Prerequisites: EDCI 300AB, EDSE 401, admission to teaching credential program, and as specified for individual subjects below. Instructional strategies and curricular themes in specific subjects taught in secondary schools. *Single matter credential candidates must complete one methods course to meet credential requirements.*

421C Science**421G Economics and General Business**

Methods and materials for teaching such high school subjects as economics, consumer economics, general business, and business law.

421H Health and Safety Education**421I Industrial Education**

Prerequisite: TECH 300AB.

421L Languages Other than English

Prerequisite: Six upper division units in the language.

421M Mathematics**421N English and Language Arts**

Prerequisites: ENGL 401; 406 or 410; completion of all but two courses in English program for Single Subject credential.

421P Physical Education**421R Art****421S Social Science****421U General Music**

Prerequisite: MUS 344, 423

423 Teaching Reading in Secondary Schools (4)

Prerequisite: EDSE 401. Reading in secondary school content areas; reading as an instructional tool in bilingual secondary classes; strategies to improve reading at secondary level; provision for field experience.

423S Teaching Reading in Secondary Schools - Spanish (4)

Prerequisite: SPAN 200C or 205B or equivalent. Suggested corequisite: EDSE 442B or 489 or current secondary school classroom employment. Reading in secondary school content areas; reading as an instructional tool in bilingual secondary classes; strategies to improve reading at secondary level; provision for field experience.

428C Processes of Science (4)

Exploration of the methodologies, logical procedures, and explanatory systems that characterize the natural sciences. Focal point will be the role of the science educator in a constructivist teaching/learning environment.

430 Using ESL Techniques in the Content Areas (3)

Prerequisite: EDEL 400 or EDSE 401. ESL and sheltered English/SDAIE instructional strategies that increase English skills and comprehensibility of core curricular subject matter for second language learners.

441 Observation/Participation in Secondary Schools (2)

Opportunity for firsthand experience with educational programs in secondary schools. May be repeated to maximum of 4 units. Graded CR/NC.

442AB Directed Teaching in Secondary Schools (11, 11)

442A. Prerequisites: EDFN 413, EDSE 401, admission to teaching credential program; completion of waiver program or passing score on NTE in subject area of teaching credential, recommendation of subject-area department; prerequisites or corequisites: EDSE 415, 421, EDIT 450. Four periods per day of directed teaching in assigned school. Seminars arranged. Graded CR/NC.

442B. Prerequisites: EDSE 415, 421, 442A, EDIT 450; prerequisites or corequisites: EDFN 414, EDSE 423. Four periods per day of directed teaching in an assigned school. Seminars arranged. Graded CR/NC.

489 Demonstration of Instructional Competencies (8–11)

First quarter. Prerequisites: EDCI 300AB, EDFN 413, EDSE 401, admission to teaching credential program, completion of approved waiver program or passing score on NTE in subject of teaching credential; prerequisites or corequisites: EDSE 415, 421, EDIT 450. Demonstration of teaching competencies for full-time secondary teachers. Must include one period in subject area of credential. Meets California Single Subject teaching credential requirement for directed teaching. May be repeated for credit with division approval. Graded CR/NC.

Second quarter. Prerequisites: EDSE 415, 421. 442A or 489, EDIT 450; prerequisites or corequisites: EDFN 414, EDSE 423. Demonstration of teaching competencies for full-time secondary teachers. Must include one period in subject area of credential. Meets California Single Subject teaching credential requirement for directed teaching. May be repeated for credit with division approval. Graded CR/NC.

490 Problems in Secondary Education (2–5)

Prerequisite: Instructor consent. Investigation of unique problems in secondary education. Specific subject announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

491 Problems of Junior High and Middle Schools in Metropolitan Areas (4)

Prerequisite: Teaching credential. Current trends and problems of American junior high and middle schools.

499 Undergraduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Graduate Level Courses

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Curriculum and Instruction (EDCI)

504 Alternative Educational Systems (4)

Exploration of the organization of curriculum and the delivery of instruction in alternative schools including charter schools, home schools, magnet schools, and self-renewing public schools.

510 Instructional Materials in Multicultural Education (4)

Prerequisite: Teaching credential. Analysis of instructional materials relating to experiences of minority cultural groups in America; elementary and secondary materials considered. May be repeated to maximum of 8 units.

513 Reading as a Cognitive Process (4)

Prerequisites: EDEL 400 or EDSE 423; teaching credential and teaching experience. Advanced study of current issues and programs in reading instruction; application of recent research findings to reading curriculum. Open to both elementary and secondary teachers.

521 Seminar: Research in Teaching Reading/Language Arts (4)

Prerequisites: EDEL 400 or EDSE 423, and EDFN 500 or equivalents. Analysis of the research knowledge base for K-12 reading/language arts instruction and learning, and application of research to the solution of reading/language arts problems.

522 Reading/Language Arts Assessment and Instruction for Classroom Teachers (4)

Prerequisite: EDEL 400 or 513 or EDSE 423. Formal and informal diagnostic methods; remedial reading methods within integrated whole-language classroom; instruction for elementary through secondary levels; supervised diagnostic experience.

524 Reading/Language Arts Assessment and Instruction for Reading/Language Arts Specialists (5)

Prerequisite: EDCI 522. Advanced diagnosis of severely disabled readers and/or writers; supervised experience in diagnosis and small group instruction with students who need assistance. Lecture 3 hours, laboratory 2 hours.

527 Seminar: Issues and Trends in Using of Children's Literature (4)

Prerequisite: EDFN 500. Issues and trends in using children's literature to teach reading, language arts, and other school subjects; analysis of research on literature-based instruction.

528 Creative Behavior: Development and Facilitation (4)(also listed as COUN 528)

Prerequisites: Teaching credential, teaching experience. Factors that inhibit and facilitate creative thinking directed toward stimulating and productively utilizing creative abilities of students in urban society.

535 Teaching for Cross-Cultural and Global Awareness (4)

Instructional strategies, materials, resources for examining cross-cultural and global education issues in the classroom.

536 Crosscultural Studies Materials for Classroom Use (4)

Collection, analysis, adoption or adaptation, and development of crosscultural studies materials, e.g., Afro-American, Chicano, Filipino-American, for use in classroom.

539 Instructional Strategies for Inner City Schools (4)

Prerequisite: Teaching credential. Instructional strategies, resources, and organizational patterns designed for teaching children and youth of inner city schools. Field work included.

540 Reading/Language Arts Clinical Practicum (2)

Prerequisites: EDCI 524, instructor consent. Supervised experience in small-group instruction with remedial or disabled reading/writing clinic student. May be repeated to a maximum of 6 units.

541 Field Work in Reading/Language Arts (4)

Prerequisites: EDCI 540, instructor consent. Supervised field experience in organization, administration, and supervision of reading/language arts programs at district or school level.

549 Developing English Reading/Language Arts Skills in Bilingual/Crosscultural Individuals (4)

Prerequisites: EDEL 400, EDSE 423, teaching credential, or instructor consent; prerequisite or corequisite: EDCI 453. Analysis of research, curriculum design and selection of materials and strategies for the development of English reading/language arts skills for the culturally/linguistically diverse student.

560 Principles and Practices of Curriculum Development (4)

Curricular trends in historical perspective; sociological change, research in child growth and development, basic philosophies. Objectives, practices, materials, evaluation in curriculum development process.

583 Application of Hypermedia in Instruction (4)

Prerequisites: EDIT 430, teaching credential. Hands-on instruction in uses of hypermedia for teaching in K-12 schools; strategies for use of hypermedia by both teachers and students to enhance instruction.

584 Learning Theories and Cognitive Science in Math Education (4)

Survey and analysis of theories and research in cognitive science and learning theories in mathematics education: cognitive technologies, students' systematic errors, gender and cultural issues.

599A, Thesis or Project Planning (3)

Prerequisites: EDFN 452 and 500, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded CR/NC.

599B, Thesis or Project (2)

Prerequisites: EDCI 599A, written approval of thesis committee chair. Prior to completion student will have submitted a final draft of thesis or project proposal to thesis committee. Graded CR/NC.

599C, Thesis or Project (2)

Prerequisites: EDCI 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC. Courses in Elementary Education (EDEL)

Elementary Education (EDEL)

531-551 Seminars: Research in Teaching Elementary School Subjects (4 each)

Prerequisites: EDFN 500, teaching experience. Analysis of research on instruction and learning; application of implications of research to the solution of classroom problems. An action research project, including an extensive review of the literature, is required.

531 Mathematics

541 Social Studies

551 Science

525 Reading/Language Arts Across the Curriculum (4)

Prerequisites: EDEL 400 or equivalent, teaching experience. Investigation of comprehensive reading/language arts instruction research base and applications. Literature-based action research project across the curriculum.

535 Seminar: Assessment Strategies in Mathematics (4)

Prerequisites: EDEL 431, teaching credential, teaching experience. Analysis of and practice in the use of assessment models that focus on mathematical thinking.

552 Scientific Processes and Authentic Assessment Strategies, K-7 (4)

Prerequisite: EDEL 402. The course emphasizes scientific behavior through the process of scientific inquiry. It explores the field of assessment to provide insights into the acquisition of scientific behaviors by students and teachers. Includes 20 hours of laboratory.

553 Environmental Science Education for Urban Settings, K-7 (4)

Prerequisite: EDEL 402. An intra-disciplinary course, illustrating the interaction of science application and the environment. Exploration of urban environmental sources for research and experimentation, provides field laboratory experiences. Includes 20 hours of laboratory.

554 Research in Thematic Science: Integrating Language Arts, K-7 (4)

Prerequisites: EDEL 402, EDEL 452, EDEL 552. Research into the positive use of the thematic approach to teaching a rigorous motivational science program that contains inter-disciplinary sciences with language arts components. Includes 20 hours of laboratory.

555 Seminar: Teaching Middle School Science Research, 4-7 (4)

Prerequisites: EDEL 402, EDEL 452. Exploration of research in science education curricula containing embedded assessment and multicultural components. Participants learn scientific research through application of long term science projects with their pupils. Includes 20 hours of laboratory.

560 Design and Management of Early Childhood Public Educational Programs (4)

Prerequisites: EDEL 461, 462, EDFN 530, CHDV 422. Design and management of early childhood public educational programs; leadership, goals, budget, accountability, differentiated staffing, management, proposal writing, articulation.

563 Seminar: Issues and Trends in Early Childhood Education (4)

Prerequisites: EDFN 503, completion of or concurrent enrollment in last quarter of Early Childhood Specialist instructional credential or M.A. degree in Child Development, teaching experience with young children. Persistent problems in early childhood education; review of literature concerning problems in early childhood education programs.

580 Computer Applications for Teaching Mathematics and Science (2)

Prerequisite: EDIT 481 *or* EDEL 480. Development of criteria for selecting courseware and strategies for using it in the teaching of mathematics and science in elementary and middle schools.

581 Microcomputer Applications in Reading and Language Arts (2)

Prerequisite: EDEL 400 *or* EDIT 452 *or* 456 *or* EDSE 423. Evaluation of microcomputer software applications in reading and the language arts.

589 Seminar: Elementary Education (4)

Prerequisite: Completion of or concurrent enrollment in last 10 units for M.A. degree in Education: Elementary Teaching option. Identification and analysis of problems and trends in urban elementary education.

590 Discipline and Classroom Management (4)

Analysis of class behavior and techniques for changing behavior in problem situations; implications of current theory and research for classroom management.

594 Selected Studies in Elementary Education (1-4)

Prerequisite: Consent of division chair. Intensive study of designated problems in elementary education. May be repeated for credit as subject matter changes.

595 Advanced Field Work: Early Childhood Specialist Instructional Credential (5)

Prerequisites: EDEL 560, teaching credential, formal admission to Early Childhood Specialist instructional credential program. Specialized fieldwork assigned on individual basis. Scheduled fieldwork; tutorial session required. Graded CR/NC.

596 Comprehensive Exam (0)

Graded CR/NR

597 Graduate Research (1-4)

Prerequisites: EDFN 500 or 509, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

598 Graduate Directed Study (1-4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 12 units for credit.

Secondary Education (EDSE)

500 Introductory Seminar: Reflections on Teaching (4)

Inquiry into theories and principles guiding classroom practice in middle and secondary schools. Addresses instructional problems and issues as well as methods for their investigation and solution.

520 Evaluation of Teaching Competencies in Metropolitan schools (4)

Prerequisite: Two or more years of teaching experience. Emphasis on identification of teaching competencies of prospective and practicing teachers, procedures for assessment and improvement of competencies, and program implications for preservice and in-service education of metropolitan teachers.

521 Teaching Effectiveness: Research and Application (4)

Prerequisites: EDFN 500; at least one year of teaching experience. Analysis of teaching effectiveness, review of research application of research findings to classroom instruction, and evaluation of instruction.

523 Current Procedures and Materials in Teaching Secondary School Subjects in Metropolitan Community (4 each)

Prerequisites: EDSE 421, teaching experience. Analysis and evaluation of current problems and trends in teaching secondary school subject fields; review and interpretation of current research; investigation of new materials and approaches.

523B Business Communication

Prerequisite: MGMT 301

523S Social Studies

524 Instructional Materials in Secondary Schools (4)

Prerequisite: Teaching credential. Survey, analysis, and utilization of secondary instructional materials for English, foreign languages, mathematics, natural and social sciences, and other secondary school subjects. Students may focus on a specific credential subject.

590 Teaching in Multicultural Middle and Secondary Classrooms (4)

Examines research-based strategies for designing, implementing and evaluating culturally-sensitive, learner-centered curriculum and instruction in multicultural/multiethnic middle and secondary classrooms.

591 Problems of Metropolitan Secondary School Students (4)

Prerequisites: Secondary credential, secondary teaching experience. Consideration of typical and special problems of adolescents, with emphasis on their perception of such problems; investigation of selected aspects of adolescent attitudes, interests, and behavior.

594 Selected Studies in Secondary Education (1-4)

Prerequisite: Consent of division chair. Intensive study of designated problems in secondary education. May be repeated for a maximum of 12 units for credit as subject matter changes.

595 Seminar: Metropolitan Secondary Education (4)

Prerequisite: Instructor consent or completion of or concurrent enrollment in final units of program for Master of Arts degree: Option in Secondary Teaching. Identification and analysis of persistent problems as they affect metropolitan secondary education.

596 Comprehensive Examination (3,4)

The comprehensive examination for the Master of Arts degree in Education with an option in Middle and Secondary Curriculum and Instruction will require candidates to engage in extended inquiry by completing an interlocking set of structured activities such as field research, teacher research, literature reviews, grant writing, and program development. Candidates electing to take these comprehensive exams will be monitored and guided over two quarters while they are enrolled in EDSE 596. Graded CR/NR

597 Graduate Research (1-4)

Prerequisites: EDFN 500 or 509, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated to a maximum of 12 units for credit. Graded CR/NC.

598 Graduate Directed Study (1-4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 12 units for credit.

Department of**Economics and Statistics**

School of Business and Economics

DEPARTMENT OFFICE

Simpson Tower F917

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E-mail: klai@calstatela.edu

Website: www.calstatela.edu/academic/business/economics/index.html

The programs of the Department of Economics and Statistics equip students with essential analytical and technical skills needed for business and economic analysis. Depending on the choice of specialization, the broad and solid training in economics is highly marketable for a wide variety of professional jobs such as public policy analysts, consultants, international economists, financial market analysts, investment advisers, business and economic forecasters, social scientists, lawyers, teachers, and educators.

The Department offers both Bachelors of Arts (BA) and Master of Arts (MA) degrees in Economics, a minor in Economics, two certificate programs, and two economics options under the Bachelor of Science in Business Administration degree. The BA program has two options; Applied Economics (with possible concentrations in International Economics, Public Policy, and Financial Economics) and *Social and Behavioral Sciences*. The MA program has options in *Global Economics* and *Financial Economics*.

In addition to providing the foundation in economics and statistics needed by all business students, the department prepares those looking for specialized careers in industry and the public sector. In particular, there are programs that prepare students for advanced graduate work in economics and for teaching.

The Faculty

Professors: Giorgio Canarella, Neil H. Garston, Sun K. Kim, Kon S. Lai (*Chair*), Tom E. Larson, Stephen K. Pollard, Sunil K. Sapra, Victor Ukpolo, Erika G. Wilson, Andrew J. Winnick.

Associate Professors: Samantha Carrington, Kathryn L. Combs, Miles M. Finney, Edward W. T. Hsieh, Madhu S. Mohanty, Nikolai Pulchritudoff, Dang T. Tran, Ashish K. Vaidya, Mann J. Yoon.

Assistant Professor: Li-Hsueh Chen

Emeriti: Ke Ting Hsia, Arthur J. Kirsch, Mildred G. Massey, Leonard G. Mathy, Donald A. Moore, Paul T. Mu, M. Richard Roseman, Gerald F. Sorrensen, John A. Tomaske.

Undergraduate Programs**Bachelor of Arts Degree in Economics****Advisement: Department of Economics and Statistics**

The Bachelor of Arts degree with a major in Economics prepares students to qualify for positions in business and government. Specific areas include finance, labor, transportation, international trade, banking, and regulatory agencies. A major in economics also provides a foundation for teaching at the college or high school level, and for entrance into graduate school or law school.

Two options are offered: the first emphasizes applied economics, and the second, social and behavioral sciences.

Students pursuing either the major or minor are urged to complete lower division courses before taking upper division courses.

Requirements for the Major (72–80 units)

A total of 72-80 units is required for the major, depending on the option selected. All students complete a 26-unit common core of lower and upper division courses in economics and business plus one of the options to complete remaining degree requirements.

Core Requirements (24 units)**Lower Division Required Courses (12 units)**

ECON 201, 202 Principles of Economics I, II (4, 4)

ECON 209 Applied Business and Economic Statistics I (4)

Upper Division Required Courses (12 units)

ECON 303 Money, Banking, and the Economy (4)

ECON 309 Applied Business and Economic Statistics II (4)

MGMT 301 Business Communications (4) or

ENGL 306 Technical Writing (4)

Option Requirements

Students select one of the following two options, comprising 52-60 units, to fulfill requirements for the major.

Option 1: Applied Economics (60 units)

This option provides students with applied, more specialized training in economics. It is recommended for students interested in a career requiring applied business and economic skills.

Lower Division Required Courses (12 units)

ACCT 202 Survey of Accounting (4)

CIS 100 Business Computer Systems (4)

MATH 206 Calculus I: Differentiation (4)

(ACCT 200AB can be used to substitute for ACCT 202)

Upper Division Required Courses (24 units)

ECON 401	Mathematical Economics (4)
ECON 403	Macroeconomics (4)
ECON 410	Microeconomics (4)
ECON 414	Econometrics I (4)
ECON 415	Applied Economic and Business Forecasting (4) or
ECON 416	Econometrics II (4)
ECON 491	Data Analysis, Reporting and Presentation (4)

(ECON 491 is the capstone course in the program. It must be taken as a senior and after completing all other upper division required courses in the option)

Elective Field Course (24 units)

Select 16-20 units of courses from one of the following fields, plus 4-8 additional units of upper division Economics courses, with advisor approval.

Field 1: International Economics

ECON 426	International Political Economy (4)
ECON 460	Economic Growth of Underdeveloped Areas (4)
ECON 461	Economics of International Trade (4)
ECON 462	International Monetary Economics (4)
ECON 490	Contemporary Issues in Economic Globalization

Field 2: Public Policy

ECON 350	Economics of Poverty in the U.S. (4)
ECON 405	Economics of Public Utilities and Regulation (4)
ECON 430	Labor Economics (4)
ECON 433	Public Finance (4)
ECON 440	Urban and Regional Economics (4)
ECON 472	Labor Relations and Collective Bargaining (4)

Field 3: Financial Economics

ECON 435	Market Indicators and Federal Reserve Policy (4)
ECON 462	International Monetary Economics (4)
FIN 303	Business Finance (4)
FIN 332	Investments (4)
FIN 437	Securities Analysis (4) or
FIN 440	Futures and Options (4)

Field 4: Open Field

A customized combination of 24 units of upper division courses in specific applied area (e.g., urban and regional studies) can be selected based on the student's special interests, with advisor approval.

Option 2: Social and Behavioral Sciences (52 units)

This option serves students with interdisciplinary interests in economics and other areas of social and behavioral sciences: anthropology, geography, history, political science, psychology, and sociology; and American, Chicano, Latin American, Pan-African, and urban studies.

Lower Division Required Courses (8 units)

ACCT 202	Survey of Accounting (4)
MATH 242	Mathematics for Business and Economics Majors (4)

Upper Division Required Courses (8 units)

Select two from the following:

ECON 310, 403, 410

Electives (36 units)**Electives in Economics Issues (16 units)**

Select 16 units from the following:

ECON 350, 405, 426, 430, 433, 440, 472, 412 or 471

General Electives (20 units)

Select 4 upper division units in economics; 8-16 units in other social or behavioral sciences; and 0-8 units in economics, other courses in the School of Business and Economics, or mathematics with adviser approval.

Bachelor of Science Degree in Business Administration with Options in

- **Business Economics and Statistics (100 units)**
- **Labor Relations (100 units)**

The BSBA degree with either option requires the completion of the BSBA Core (72 units) and the Option Requirements (28 units)

Advisement: Department of Economics and Statistics**Core Requirements for the Bachelor of Science in Business Administration (72 units)****Lower Division Required Courses (28 units)**

ACCT 200AB	Principles of Accounting (4,4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4,4)
ECON 209	Applied Business and Economics Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)

Select one from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for Business Economics and Statistics (28 units)

This option teaches students the major quantitative analysis skills needed by business statisticians in rapidly expanding research departments of business firms and governmental agencies and by executive assistants in moderate-sized and large firms.

Required Skills Course (4 units)

ACCT 325 **or** MGMT 489 **or** MKT 325

Other Required Courses (16 units)

ECON 401	Mathematical Economics (4)
ECON 403	Macroeconomics (4)
ECON 410	Microeconomics (4)
ECON 414	Econometrics I (4)

Electives (8 units)

Select 8 units from the following:

ACCT 322	
CIS 482, 486	
ECON 415, 416, 491	
MGMT 467	
MKT 446	

Option Requirements for Labor Relations (28 units)

This option develops competence in labor relations required of managers, supervisors, conciliators, and similar officials in industry, finance, education, government, and labor unions.

Required Skills Course (4 units)

ACCT 325 or MGMT 489 or MKT 325

Required Courses for the Option (16 units)

ECON 430	Labor Economics (4)
ECON 472	Labor Relations and Collective Bargaining (4)
ECON 473	Labor Legislation (4)
MGMT 473	Strategic Human Resource Management (4)

Electives (8 units)

Select 8 units with adviser approval

Minor in Economics

A minor in Economics is available for students majoring in other fields. A total of 20 units in Economics is required, of which 12 units are in upper division courses and taken in residence at Cal State L.A.. At least 4 upper division units cannot be used for a student's major.

Requirements for the Minor (20 units)**Lower Division Required Courses (8 units)**

ECON 201	Principles of Economics I (4)
ECON 202	Principles of Economics II (4)

Electives (12 units)

Select upper division ECON courses in consultation with major and minor program advisers. At least 4 units cannot be applied toward a student's major and the elective requirement cannot be satisfied using ECON 499. A list of ECON courses that students can take as electives for the minor is available from the Department of Economics and Statistics.

Certificate in International Economic Relations

The certificate program in International Economic Relations at California State University, Los Angeles will benefit students to better understand the economic and political factors that influence the global economy. The certificate will help students pursuing careers in federal or state agencies dealing with international affairs, corporations involved in international business and finance, and in international organizations, foundations, and nongovernment agencies.

At least 28 units are required to be selected with consent of adviser. Sixteen units in the core and at least 12 units of electives.

Prerequisites: Students in a degree program in the School of Business and Economics OR in a degree program in political science OR with consent of adviser.

Required Core Courses: (16 units)

ECON/POLS 426	International Political Economy (4)
ECON 461	Economics of International Trade (4)
ECON 462	International Monetary Economics (4)
POLS 425	U.S. Foreign Policy (4) or
POLS 427	International Relations (4)

Elective Courses (12 units)

Choose from the following:

CHIN 380 or FREN 380 or JAPN 380 or SPAN 380	Business/Commercial Chinese, French, Japanese, or Spanish (4)
ECON 460	Economic Growth of Underdeveloped Areas (4)
ECON 480	Comparative Economic Systems (4)
FIN 431	Multinational Financial Management (4)
GEOG 441	World Resources (4)
GEOG 481	Political Geography (4)
LAS 424	The U.S. and Latin America (4)
LAS/PAS 460	Dynamics of Social Change in the Third World (4)
MGMT 462	Comparative Management (4)
MKT 456	International Marketing Management (4)
PAS 416	Pan Africanism and World Politics (4)
POLS 421	Comparative Politics (4)
POLS 450 or 451 or 452 or 453 or 456	Politics of Selected Regions (4)

Certificate in Labor Relations

The certificate program in Labor Relations at California State University, Los Angeles is designed to strengthen the skills of students interested in labor relation careers and improve access to career opportunities for administrators, mediators, arbitrators, and government and labor officials.

At least 28 units are required to be selected with consent of adviser.

Prerequisites:

- Senior standing in a BS/BA degree program in School of Business and Economics or
- Senior standing in a BA degree program in the School of Natural and Social Sciences or
- Classified graduate standing in master's degree program in the School of Business and Economics
- And/ or School of Natural and Social Sciences or
- Senior standing in BA degree program in Communication Studies or
- With consent of advisor

Required Core Courses: (16 units)

ECON 430	Labor Economics (4)
ECON 473	Labor Legislation (4) or
HIST 487	History of U. S. Work and Working People (4)
ECON 472	Labor Relations (4)
MGMT 473	Personnel Management (4)

Elective Courses (12 units)

Choose from the following:

ECON 403	Macroeconomics (4)
MGMT 474	Compensation Management (4)
MGMT 477	Managing the Staffing Function (4)

Elective Courses (cont'd)

POLS 463	Public Personnel Administration (4)
POLS 464	Public Sector Labor Relations (4)
SPCH 430	Organizational and Professional Communications (4)

Graduate and Postbaccalaureate Programs

Master of Science Degree in Business Administration with the Option in Business Economics (45 units)

This is a specialized degree program permitting concentration and research in one of several options.

Admission to the Program

The application must include three letters of recommendation from either employers or academicians.

Students are required to complete 36 units of preparatory business and related courses for admission to classified graduate standing for the M.S. degree in Accountancy, the M.S. degree in Business Administration, and the M.B.A. degree.

The 36-unit requirement can be met either by taking the courses listed below or by submitting transcripts demonstrating that the equivalent subject material has been successfully completed either at the undergraduate or graduate level. In addition, competency must be demonstrated in calculus, statistics, and the use of computers. The competency requirement can be met by successfully passing competency exams in each area of by submitting transcripts showing that the subject matter has been successfully completed at either the undergraduate or graduate level.

ACCT 260R, 360R
ECON 311R,
FIN 261R, 363R
MGMT 361R, 366R, 367R or 368R
MKT 364R

In addition to completing the 36 quarter units of acceptable basic business courses listed above, applicants must have an approved graduate degree program on file in the School Advisement Center.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 41 units in 500-level courses.

Required Core (24–27 units)

ACCT 503	Quantitative Approach to Managerial Decisions (4)
CIS 504	Management Information Systems (4)
ECON 502	Economic Analysis and Business Operations (4)
MGMT 501	Administrative Behavior and Systems Management (4)
MGMT 594	Policy Integration and Strategy (3)
MGMT 598	Graduate Directed Study (1)

Additional 598 courses are to be taken for 4-7 units selected with advisor approval.

Thesis (5 units)

BUS 599AB Thesis (2, 3)

Required Courses for the Option (9 units)

ECON 510	Seminar: Advanced Microeconomic Theory I (3)
ECON 511	Seminar: Advanced Microeconomic Theory II (3) or
ECON 520	Seminar: National Income and Employment Theory (3)
ECON 521	Seminar: Monetary Theory and Policy (3)

Electives (4–7 units)

Students who have not taken ECON 416 for undergraduate credit must include it in their electives.

Master of Arts Degree in Economics

The degree curriculum consists of a core as well as two options: **Global Economics** and **Financial Economics**. The Global Economics option equips students with current knowledge of the global economy, together with investigative and technical skills, for business economic analysis desired by consulting companies, government agencies, multinational business corporations, and international organizations.

The Financial Economics option provides students with essential analytical and technical skills in both economics and financial analyses desired by consulting firms, securities companies, and other related businesses in investment services such as investment banking, mutual fund, and insurance.

Admission to the Program

In addition to University requirements for admission to graduate study with conditionally classified standing, applicants must have a 2.75 grade point average in the last 90 quarter units attempted and a minimum cumulative score of 900 on the verbal and quantitative sections of the GRE General Test.

For admission as a classified graduate student in Economics, the student must meet the above admission requirements and also the following prerequisites: equivalent of the baccalaureate in economics at Cal State L. A. or completion with a B (3.0) average of a set of prerequisite courses selected by an economics adviser at Cal State L. A.; filing of a program, including electives, with the School of Business and Economics.

If qualifying courses are required, they must be so designated in advance. They may include upper division and prerequisite courses.

Requirements for the Degree (45 units)

The 45-unit program consists of core requirements which are to be taken together with either the Global Economics Option or the Financial Economic Option. A minimum of 23 units must be 500 level.

Core Courses (24 units)

ECON 401	Mathematical Economics (4)
ECON 414	Econometrics (4)
ECON 415	Applied Economic and Business Forecasting (4)
ECON 510	Seminar: Advanced Microeconomic Theory I (3)
ECON 514	Seminar: Econometrics (3)
ECON 520	Seminar: National Income and Employment Theory (3)
ECON 598	Graduate Direct Study (1, 1, 1)

Options

Select one of the following options for 16-21 units depending on whether the student takes a comprehensive examination or writes a thesis. Electives are determined in conference with a graduate adviser to meet the professional objectives of students.

Global Economics Option (16–21 units)**Required Courses (8 units)**

ECON 560	Seminar: Economic Growth in Underdeveloped Areas (3)
ECON 561	Seminar: International Economics (3)
ECON 598	Seminar: Graduate Direct Study (1, 1)

Electives (8–13 units)

Select from the following

ECON 426	International Political Economy (4)
ECON 460	Economic Growth of Underdeveloped Area (4)
ECON 461	Economics of International Trade (4)
ECON 462	International Monetary Economics (4)
ECON 526	Seminar: International Political Economy (3)
ECON 590	Seminar: Contemporary Economics Analysis and Policy (3)
FIN 533	Seminar: International Finance (3)
ECON 598	Graduate Direct Study (1,1)
FIN 598	Graduate Direct Study (1)

Selection of other 400- or 500-level courses is possible with advisor approval.

A sufficient number must be at the 500 level to bring the total 500-level units for core and electives to at least 23. Either international economics or economic development will be a field of concentration for those electing the comprehensive examination.

Comprehensive Examination or Thesis (0, 5 units)

BUS 596	Comprehensive Examination (0) or
ECON 599AB	Thesis (2, 3)

Financial Economics Option (16-21)**Required Courses (12 units)**

FIN 530	Seminar: Business Finance (3)
FIN 531	Seminar: Financial Institutions (3)
FIN 533	Seminar: International Finance (3)
FIN 598	Seminar: Graduate Direct Study (1, 1, 1)

Electives (4–9 units)

ECON 462	International Monetary Economics (4)
FIN 403	Intermediate Business Finance (4)
FIN 434	Financial Management (4)
FIN 534	Seminar: Portfolio Management (3)
FIN 535	Seminar: Speculative Securities and Markets (3)
FIN 598	Seminar: Graduate Direct Study (1,1, 1)

Selection of other 400- or 500-level courses is possible with advisor approval.

A sufficient number must be at the 500 level to bring total 500-level units for core and electives to at least 23. Financial economics will be a field of concentration for those electing the comprehensive examination.

Comprehensive Examination or Thesis (0, 5 units)

BUS 596	Comprehensive Examination (0) or
ECON 599AB	Thesis (2, 3)

List of Courses (ECON) - Undergraduate Level**Lower Division Courses****150 Economics for the Citizen (4)**

Analysis of contemporary American economic problems. Topics may include inflation, unemployment, discrimination, costs and benefits of control of crime, and pollution. Not to be taken for credit by Economics or business administration majors. **GE D**

201 Principles of Economic I: Microeconomics (4)

Introduction to basic concepts and tools of economic analysis; prices and outputs, marketing structures, wages and profits; international trade and effects of tariffs. **CAN**
ECON 4

202 Principles of Economics II: Macroeconomics (4)

Prerequisite: ECON 201. Concepts and tools of aggregate economic analysis; inflation, unemployment, balance of payments, national income; determinants of the level of economic activity; money and banking; the role of government. **CAN** ECON 2

209 Applied Business and Economic Statistics I (4)

Prerequisite: MATH 091 or satisfactory score on mathematics placement examination. Elementary business and economics statistics with computer applications; descriptive statistics, frequency distribution, probability, sampling distribution, estimation, and significance tests.

Upper Division Courses

Upper division status is prerequisite to enrollment in 300- and 400-level ECON courses.

303 Money, Banking, and the Economy (4)

Prerequisite: ECON 202. Nature and flow of money and credit; influence on prices, production, and employment; the Federal Reserve and banking systems; national income, and international monetary relations.

309 Applied Business and Economic Statistics II (4)

Prerequisites: ECON 209, MATH 242. Linear statistical models and nonparametric methods emphasizing applications in business and economics; linear regression and correlation, analysis of variance, index numbers and time series analysis, analysis of enumerative data, nonparametric statistics.

310 Managerial Economics (4)

Prerequisites: ECON 201 (ECON 309 recommended). Managerial application of microeconomic principles. Emphasis on real world issues for business decision-making. Applied subjects include empirical analysis on sales and costs, pricing practices, nonprice competition, and government intervention.

350 Economics of Poverty in the U.S. (4)

Prerequisite: ECON 150, 201, or 202. Concept and measurement of poverty; analysis of both economic causes and effects of poverty; policy implications and remedies.

360 Developing Countries and the New Global Economy (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Overview of economic factors that influence the development and participation of today's developing countries in the global economy. Problems with economic transition, environment, technology, and impact of global financial, trade, and investment systems. Lecture 4 hours.

390 Current Economic Problems (4)

Prerequisite: ECON 202. Analysis of significant problems of the day; role of government, incentives, groups with large market power, inflation, national debt, maintaining aggregate demand, poverty, balance of payments, and economic growth.

391 Quantitative Methods for Business Decisions (4)

Prerequisite: ECON 309. Techniques of gathering, deciphering, evaluating and using data to make effective business decisions. Topics include data collection, survey sampling, decision making under uncertainty and forecasting. Team projects (involving the use of Internet resources or survey sampling) and report writing are required.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

401 Mathematical Economics (4)

Prerequisites: ECON 303, 310. Introduction to use of mathematics in dealing with economic problems; emphasis on optimization under constraints, using tools of differential and integral calculus, matrix algebra, and linear and nonlinear programming.

403 Macroeconomics (4)

Prerequisites: MATH 242 or 206–207; ECON 303. Macroeconomic theory; determination of national income, theories of aggregate consumption, investment, unemployment, the price level; national income and product accounts; theory of growth.

405 Economics of Public Utilities and Regulation (4)

Prerequisite: ECON 310. Principles and techniques of government regulation of prices and product quality of privately held firms; problems of growth, pricing, demand, cost behavior, and financing of regulated industries.

410 Microeconomics (4)

Prerequisites: ECON 310, 401. Advanced microeconomic theory; economic analysis and evaluation of market system of resource allocation and income distribution.

412 Development of Economic Thought (4)

Prerequisite: ECON 202. Intellectual origins and evolution of modern economic thought.

414 Econometrics I (4)

Prerequisites: ECON 309, ECON 401. Use of statistics to measure economic relationships, test economic theories, and prepare forecasts. Emphasis on advanced regression techniques and data analysis; use of computer software.

415 Applied Economic and Business Forecasting (4)

Prerequisite: ECON 309. Forecasting methods using univariate Box-Jenkins, ARIMA, transfer functions, intervention analysis, single equation models, vector autoregressive models; forecast evaluations; emphasis on applications that use state-of-the-art computer software.

416 Econometrics II (4)

Prerequisite: ECON 414. Advanced topics in econometrics with a focus on multiple equation models and their application to business and economic analysis.

**426 International Political Economy (4)
(also listed as POLS 426)**

Prerequisites: Four units each of ECON and POLS. Interaction of politics and economics in the international arena.

430 Labor Economics (4)

Prerequisite: ECON 202. Use of labor resources in economic system; employment, wage rates, development of unions and collective bargaining; labor legislation.

433 Public Finance (4)

Prerequisite: ECON 202; 303 recommended. Economic role of government; principles of government taxation, borrowing, spending; their impact on households, enterprises, and the national economy.

435 Market Indicators and Federal Reserve Policy (4)

Prerequisite: ECON 303. Causes of inflation, slow economic growth, and unemployment in the national economy; policies and tools for anticipating and correcting these problems.

440 Urban and Regional Economics (4)

Prerequisite: ECON 201. Role of economic analysis in dealing with urban and regional problems; growth, land use, housing, transportation, and income distribution; emphasis on role of economic models in policy making.

454 Special Topics in Economics and Statistics (1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisite. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects. May be repeated for 16 units as subject matter changes.

460 Economic Growth of Underdeveloped Areas (4)

Prerequisite: ECON 150 or 201 or 202. Overview of economic factors that influence development of today's low income countries; theories of development; problems with labor, capital, technology, and entrepreneurship; role of trade and international finance; government policy.

461 Economics of International Trade (4)

Prerequisite: ECON 202. Economic analysis of how and why commodities are traded among nations; tariffs and quotas; common market and other international institutions.

462 International Monetary Economics (4)

Prerequisite: ECON 202. Analysis of International bond and currency markets and their dynamic relationships with economic fundamentals; implications of fiscal and monetary policies for financial markets; speculative attack and currency crisis management.

471 American Economic History (4)

Prerequisite: ECON 150 or 201 or 202. Examination of sources and patterns of American economic development with emphasis on analysis of contemporary economic problems and policies in their historical setting.

472 Labor Relations and Collective Bargaining (4)

Prerequisite: ECON 202. Recommended corequisite: ECON 430. Relations between employers and employees as the latter are represented by organized labor; collective bargaining as it relates to recognition, wages, hours, working conditions, grievance procedure, seniority, and health and safety.

473 Labor Legislation (4)

Federal and state labor laws and policies; legislation protecting employees; regulation of labor management relations; social security; contemporary legal issues and problems.

480 Comparative Economic Systems (4)

Prerequisite: ECON 150 or 201 or 202. Comparison of economic systems including goals, degree of centralization, and underlying ideology; economies of various countries examined, including Soviet Union, Mainland China, U.S., and selected Third World nations.

490 Contemporary Issues on Economic Globalization (4)

Prerequisites: ECON 202; 303 or 390. Priorities, goals and economic issues; laissez-faire capitalism versus "welfare-state" capitalism, or the conservative-liberal argument; responsibility of groups with large market power, current economic issues.

491 Data Analysis, Reporting and Presentation (4)

Prerequisite: Upper Division required courses under the applied economics option. Use of a major statistical software package for data analysis; introduction to widely used economic databases; data presentation; research report writing and oral presentation.

499 Undergraduate Directed Study (1-4)

Prerequisites: Economics major, senior standing, and consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare oral and written reports. Project to be selected in conference with sponsor before registration; progress meetings held regularly. May be repeated for 20 units of credit.

Graduate Level Courses (ECON)

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser

Classified graduate standing and approval by the School of Business and Economics Advisement Center are required for admission to all 500-level courses.

500 MBA Economics (4)

A course in Economics for MBA students covering material from both microeconomics and macroeconomics. Topics include market structure, demand analysis, consumer behavior, nature of the firm, measuring economic activity, inflation unemployment, money and banking, and the role of the government.

501 Quantitative Methods for Business Decision-Making (4)

Applications for statistics and quantitative methods for business and economic analysis. Topics include descriptive statistics, data analysis, statistical inference, hypothesis testing, linear correlation and regression analysis, timeseries forecasting, inventory and optimization models, simulation, queuing, and decision making under uncertainty.

502 Economic Analysis and Business Operations (4)

Tools, concepts, and factual data of the economist in solving specific business problems; case method applications of principles, analytical tools, and sources of economic information to practical business situations.

510 Seminar: Advanced Microeconomic Theory I (3)

Prerequisite: ECON 410. Corequisite: ECON 598. Advanced treatment of theories of household choice, production and cost, and output and input markets. Emphasis on static, partial-equilibrium analysis.

511 Seminar: Advanced Microeconomic Theory II (3)

Prerequisite: ECON 510. Corequisite: ECON 598. Continuation of ECON 510 with emphasis on general equilibrium analysis, capital theory, and intertemporal resource allocation.

514 Seminar: Econometrics (3)

Prerequisite: ECON 414; Corequisite: ECON 598. Advanced treatment of statistics to analyze economic systems and test economic theories; emphasis on simultaneous equation models and time series models and their applications using econometric computer software.

520 Seminar: National Income and Employment Theory (3)

Prerequisite: ECON 403. Corequisite: ECON 598. Seminar in aggregate income and employment theory; analysis of national income measurement and concepts, macroeconomic theory, fiscal policy.

521 Seminar: Monetary Theory and Policy (3)

Prerequisite: ECON 520. Corequisite: ECON 598. Seminar in aggregate income and employment theory; monetary theory, role of money in macroeconomic theory, monetary policy.

526 Seminar: International Political Economy (4) (also listed as POLS 526)

Prerequisite: ECON/POLS 426 or ECON 461 plus POLS 427. Research and analysis of the interactions of politics and economics in the international arena.

530 Seminar: Labor Economics (3)

Prerequisites: ECON 414, 430. Corequisite: ECON 598. Seminar in microeconomics of labor market; human capital theory; labor market discrimination; public sector labor market; unemployment theories.

533 Seminar: Public Finance (3)

Prerequisite: ECON 433. Corequisite: ECON 598. Advanced microeconomics treatment of theories and policy implications of government expenditures and taxation, collective decision-making, and fiscal federalism.

540 Seminar: Urban Economics (3)

Prerequisite: ECON 440. Corequisite: ECON 598. Advanced treatment of economic models for analyzing urban-regional problems, including growth, land use, housing, transportation, income distribution. Emphasis on construction and use of models in policy evaluation.

560 Seminar: Economic Growth in Underdeveloped Areas (3)

Prerequisite: ECON 460. Corequisite: ECON 598. Advanced treatment of theory and practice of national development from an economic perspective. Major theories of economic development; role of labor, capital, technology, foreign trade, and government policy.

561 Seminar: International Economics (3)

Prerequisite: ECON 461. Corequisite: ECON 598. Advanced study and analysis of theories concerning economics of international exchange of goods, services, capital and government transfers; discussion of international institutions regulating trade and payments among nations.

571 Seminar: Economic History of U.S. (3)

Prerequisite: ECON 471. Corequisite: ECON 598. Critical examination of selected topics in American economic history with emphasis on the empirical application of economic analysis.

590 Seminar: Contemporary Economic Analysis and Policy (3)

Corequisite: ECON 598. Selected analytical and policy issues underlying current developments in theoretical, empirical, and policy research; topics will reflect student interest and faculty specialty. May be repeated once as subject matter changes, with instructor consent.

598 Graduate Directed Study (1–4)

Investigation of an approved project leading to an oral and/or written report; project selected in conference with seminar professor before registration, and arrangements made for regular meetings during quarter. May be repeated for credit.

599A Thesis (2)

Prerequisites: Completion of required core courses, written approval of graduate adviser. Prior to completion, students will have completed a tentative outline of thesis, petitioned graduate adviser for appointment of a thesis committee, and submitted a tentative outline to thesis committee. Graded *CR/NC*.

599B Thesis (3)

Prerequisites: ECON 599A, written approval of thesis committee chair. Completion of thesis under direct supervision of thesis committee. Graded *CR/NC*.

Division of

Educational Foundations and Interdivisional Studies

Charter School of Education

Fernando Hernandez, Chair King Hall C2098

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Program advisement:

The Charter School of Education's Division of Educational Foundations and Interdivisional Studies offers advisement for master's degree programs in educational foundations, computer education, instructional technology, and Teaching English to Speakers of Other Languages. Although the division offers coursework to meet basic and advanced credential requirements, faculty do not plan programs or advise for credentials.

Degrees Offered:

M.A. Degree in Education: Option in Computer Education and Technology Leadership; Option in Educational Foundations; Option in New Media Design and Production: M.A. in Teaching Speakers of Other Languages (TESOL).

Certificates Offered:

Computer Application in Schools; English as a Second or Foreign Language (ESL/EFL)

The Faculty

Professors: Kathryn L. Alesandrini, Stephanie Evans, Janet C. Fisher-Hoult, Bernardo Gallegos Anne L. Hafner, Fernando A. Hernandez (*Chair*), Dorothy L. Keane, Ita Kreft, Fred Pycszak, Jr., Rolando A. Santos, Penelope Semrau, Simeon P. Slovacek, Marguerite Ann Snow, Elizabeth Viau, James H. Wiebe.

Associate Professors: Judith L. Cope, Kathleen M. Costantini, José L. Galván, Antony J. Kunnan. .

Assistant Professors: Lia D. Kamhi-Stein, Carlos Tejada,

Emeriti: Webster E. Cotton, Marilyn W. Greenberg, Lois V. Johnson, Charles F. Leyba, Robert R. Morman, Helen Isabel Nicklin, Lamar Price, Patricia Richard-Amato, Julian B. Roth, Carleton B. Shay, Patricia Bates Simun, Katherine Sistrom, Elfleda J. Tate, Edwin Wandt.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Education: Option in Computer Education and Technology Leadership

This option prepares educators to assume leadership roles in the field of computer education. In particular, the program is designed to prepare computer-using teachers, computer-based trainers, computer/technology coordinators, and other school-based technology experts for K-12 schools and other education and training settings. Note: Teachers who plan to teach in public California K-12 classrooms or work as school-level or district-level computer coordinators must obtain a California teaching credential. For some district-level technology coordinator positions, a Level 1 California Administrative Credential is required.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a minimum 2.75 grade point average in the last 90 quarter units attempted and must have completed a course or courses covering computer literacy and applications in education (EDIT 430 or EDIT 431 or both CS 160 and EDIT 447). Students must make written application to the Charter School of Education and the Division of Educational Foundations and Interdivisional Studies.

Requirements for the Degree (45 units)

A total of 45 or more units is required, with at least 23 units in 500-level courses. A comprehensive examination or a thesis or project is required. There is a limit on credit that may be earned in variable-unit courses. See *Restriction on Credit Earned in Variable Unit Courses* earlier in this chapter.

Prerequisites:

EDIT 430	Introduction to Computers and Their Uses in the Classroom (4) or
EDIT 431	Advanced Computer Applications in Education (4) or both of the following:
CS 160	Introduction to Computers (3)
EDIT 447	Computers in the Classroom (2)

Required Courses (29 units)

EDFN 500	Evaluation of Educational Research (4)
EDIT 435	Computer Systems in Education (4)
EDIT 451	Survey of Instructional Media and Technology (3)
EDIT 484	Computer Authoring Tools (4)
EDIT 501	Instructional Design of Mediated Instruction (5)
EDIT 556	Technology Leadership in Schools (5)
EDIT 580	Applied Experience in Instructional Technology (4)

Electives**(9, 16 or more units in Instructional Technology)**

Select from the following, depending on the choice of thesis, project or comprehensive examination—total units in the program must be 45 or more with 23 units or more at 500-level.

EDIT 472	World Builders (4)
EDIT 490	Special Topics in Instructional Technology (2-5)
EDIT 540	Instructional Graphics Design and Production (5)
EDIT 550	Multimedia Design and Production (5)
EDIT 554	Video Technology/TV Production (4)
EDIT 557	Computer Assisted and Managed Instruction (5)
EDIT 560	The World Wide Web in Education (4)
EDIT 565	Distance Learning (5)
EDIT 594	Selected Studies in Instructional Technology (1-5)

Electives Offered in Other Departments

EDAD 545	Seminar: Technology for Instructional and Organizational Change (3)
EDEL 480	Teaching Problem Solving with LOGO (4)
EDEL 580	Evaluation of Microcomputer Courseware for Elementary Schools: Mathematics & Science (2)
EDCI 583	Application of Hypermedia in Instruction (4)
EDSP 508	Computer Applications in Special Education (4)

Comprehensive Examination or Thesis or Project (0 or 7 units)

EDFN 596	Comprehensive Examination (0) or
EDFN 599A	Thesis* or Project Planning (3) and
EDFN 599B	Thesis* or Project (2) and
EDFN 599C	Thesis* or Project (2)

*Students who do a thesis are required to take a second course in educational research methodology such as [EDFN 452 \(with adviser approval\)](#).

Students should expect to take the comprehensive examination (EDFN 596) the quarter they complete all course work on their program and must also comply with school and division requirements.

Master of Arts Degree in Education: Option in Educational Foundations

The Master of Arts degree in Education, Option in Educational Foundations, offers concentrations in social and psychological foundations and is intended for educators interested in the theoretical basis of education.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a 2.75 grade point average in the last 90 quarter units attempted, a teaching credential and an appropriate undergraduate major.

Requirements for the Degree (45 units)

A minimum of 23 of the 45 units must be in 500-level courses and at least 23 units must consist of education courses. See *Restrictions on Credit Earned, in Variable Unit Courses* earlier in this chapter.

Required Courses (12 units)

EDFN 500	Evaluation of Educational Research (4)
EDFN 505	Qualitative Research in Education (4)
EDFN 506	Comparative Education (4)

Required in Cognate or Theme Area (8 units)

Select with adviser approval.

Area of Concentration (8 units)

Select eight units from one of the two following areas:

Psychological Foundations

EDFN 510	Advanced Study: Learning Theory and Education (4)
EDFN 530	Advanced Study in Human Development (4)

Social Foundations

EDFN 507	History of Education (4)
EDFN 508	Philosophy of Education (4)
EDFN 525	Educational Sociology (4)

Electives in Education (4–17 units)

Select courses in education with adviser approval.

Electives in Cognate Area (0–14 units)

Select with adviser approval.

Comprehensive Examination or Thesis or Project (0, 7 units)

EDFN 596	Comprehensive Examination (0) or
EDFN 599A	Thesis or Project Planning (3) and
EDFN 599B	Thesis or Project (2) and
EDFN 599C	Thesis or Project (2)

Students should expect to take the comprehensive examination (EDFN 596) the quarter they complete all course work on their program and must comply with school and division requirements.

Master of Arts in Education: Option in New Media Design and Production

The New Media Design and Production option prepares school or industry-based specialists who combine skills in applying computer technology with advanced video and multimedia techniques to enhance the learning experience of students at all levels.

Note: Teachers who plan to teach in public California K-12 classrooms or work as school-level or district-level computer coordinators must obtain a California teaching credential.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a minimum 2.75 grade point average in the last 90 quarter units attempted and must have completed a course or courses covering computer literacy and applications in education (EDIT 430 or EDIT 431 or both CS 160 and EDIT 447). Students must make written application to the Charter School of Education and the Division of Educational Foundations and Interdivisional Studies.

Requirements for the Degree (45 units)

A total of 45 or more units is required, with at least 23 units in 500-level courses. A comprehensive examination or a thesis or project is also required. There is a limit on credit that may be earned in variable-unit courses. See *Restriction on Credit Earned in Variable Unit Courses* earlier in this chapter.

Prerequisites

EDIT 430	Introduction to Computers and Their Uses in the Classroom (4) or
EDIT 431	Advanced Computer Applications in Education (4) or both of the following:
CS 160	Introduction to Computers (3)
EDIT 447	Computers in the Classroom (2)

Required Courses (30 units)

EDFN 500	Evaluation of Educational Research (4)
EDIT 451	Survey of Instructional Media and Technology (3)
EDIT 484	Computer Authoring Tools (4)
EDIT 501	Instructional Design of Mediated Instruction (5)
EDIT 550	Multimedia Design and Production (5)
EDIT 557	Computer Assisted and Managed Instruction (5)
EDIT 580	Applied Experience in Instructional Technology (4)

Electives

(8 or 15 or more units in Instructional Technology) or related fields

Select from the following, depending on the choice of thesis, project, or comprehensive examination—total units in program must be 45 or more with 23 units or more at the 500-level.

EDIT 435	Computer Systems in Education (4)
EDIT 472	World Builders (4)
EDIT 490	Special Topics in Instructional Technology (2-5)
EDIT 540	Instructional Graphics Design and Production (5)
EDIT 550	Multimedia Design and Production (5)
EDIT 554	Video Technology/TV Production (4)
EDIT 556	The Role of the Computer Specialist in Education (5)
EDIT 560	The World Wide Web in Education (4)
EDIT 565	Distance Learning (5)
EDIT 594	Selected Studies in Instructional Technology (1-4)

Comprehensive Examination or Thesis or Project (0 or 7 units)

EDFN 596	Comprehensive Examination (0) or
EDFN 599A	Thesis* or Project Planning (3) and
EDFN 599B	Thesis* or Project (2) and
EDFN 599C	Thesis* or Project (2)

*Students who do a thesis are required to take a second course in educational research methodology such as EDFN 452 (with adviser approval).

Master of Arts Degree in Teaching English to Speakers of Other Languages (TESOL)

The Master of Arts Degree in Teaching English to Speakers of Other Languages (MA TESOL) prepares teachers for a wide variety of positions both in the U.S. and abroad. Students may select coursework that prepares them for several career choices, including the following: English as a Second Language (ESL) or English as a Foreign Language (EFL) instruction in the U.S. or in a non English-speaking setting abroad; K-12, adult education, or post secondary settings; and research in Applied Linguistics. The program emphasizes language acquisition processes, teaching methodology, linguistics, language testing, research, and sociocultural influences.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a 2.75 grade point average in the last 90 quarter units attempted. Students must first apply for admission to the University in graduate standing. Then, they must make formal application to the Charter School of Education and the TESOL Program. Once they gain admission to the university with graduate status, they must consult a faculty adviser for program planning.

Prerequisites

All Students:

- ENGL 401 English Language in America (4) with grade of B or better.
- One year of college level study in a foreign language or equivalent.

For Visa Students (in addition):

- Minimum 600 (paper-based or 250 computer-based) score on TOEFL, with at least 60 on each of the sections, or 550 score on TOEFL and minimum 5 score on Test of Written English.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 units in 500-level courses. A comprehensive examination, or a thesis or project is also required. There is a limit on credit that may be earned in variable-unit courses. See *Restrictions on Credit Earned in Variable Unit Courses*.

Required Core (32 units)

TESL 560	Theories of Teaching and Learning Second Languages (4) or
ENGL 405	Modern English Grammar (4) or
TESL 561	Pedagogical Grammar for Teachers of ESL/EFL (4)
TESL 562	Methods for Teaching Second Languages (4)
TESL 564	Teaching English as a Second Language for Academic Purposes (4)
TESL 567A	Language Testing (4)

Required Core (cont'd)

TESL 568	Practicum in English as a Second Language (4)*
TESL 570	Educational Sociolinguistics (4) or
ANTH 470/ENGL 403	Language and Culture (4)
** EDFN 500	Evaluation of Educational Research (4)

*May be waived for students with substantial ESL/EFL teaching experience who successfully demonstrate their teaching competency (must be certified by a TESOL program faculty member).

** Students who choose to write a thesis are required to obtain an adviser's approval and must take a second course in statistics, EDFN 452.

Electives

Select remaining units from the following, with adviser approval:

ANTH 470/ENGL 403
COMD 455, 456
EDCI 453, 549
EDSP 408

Electives (cont'd)

EDFN 452
EDIT 430
ENGL 400, 403, 405, 504, 505
TESL 561, 565, 566, 567B*, 569, 570, 571, 572, 573AB*, 574, 597, 598

*May be repeated once for credit with prior approval of a TESOL adviser.

Comprehensive Examination or Thesis or Project (0, 7 units)

TESL 596	Comprehensive Examination (0) or
TESL 599A**	Thesis or Project Planning (3) and
TESL 599B**	Thesis or Project (2) and
TESL 599C**	Thesis or Project (2)

*Students should expect to take the comprehensive examination (EDFN 596) during the Fall or Spring Quarter and must comply with school and division requirements.

**Students who do a thesis are required to obtain adviser approval and are required to take a second course in statistics (EDFN 452). Selection of an appropriate thesis or project topic may allow students to substitute thesis or project units for other course work in the program, with adviser approval.

Certificate Programs**Certificate Program in Computer Applications in Schools**

The credit certificate program in Computer Applications in Schools is designed to prepare teachers to use computers in their classrooms and to take leadership roles in their schools. Those who complete the program will be prepared to teach computer programming/problem-solving; to select and modify instructional software; to evaluate and select hardware; and to use computers to manage classrooms and schools. Completion of this credit certificate program requires 28 units in core and elective courses with a minimum B (3.0) average. Refer to the **Graduate and Postbaccalaureate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (28 units)**Core Courses (12 units)**

EDIT 430	Introduction to Computers and Their Uses in the Classroom (4)
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Select two from the following:

EDEL 480	Teaching Problem Solving with LOGO (4)
EDIT 481	Microcomputing in Schools: BASIC I (4)
EDIT 482	Microcomputing in Schools: BASIC II (4)
EDIT 483	Pascal for Teachers (4)
EDIT 484	Computer Authoring Tools (4)

Electives

Select 16 units from the following with careful attention to prerequisites:

EDAD 545,
EDEL 480, 580, 581
EDIT 452, *481, *482, *483, *484, 525, 555, 556, 557
EDSP 508

*if not taken in the core

Students are encouraged to consult an adviser for assistance in planning their program to fulfill individual needs. Careful attention to course prerequisites is urged, also.

Certificate Program in English as a Second or Foreign Language (ESL/EFL)

This program is designed to prepare students to teach English as a second language (ESL) in post-secondary settings in the U.S. or to teach English as a foreign language (EFL) abroad. Specifically, the program is designed for (A) students who hold a master's degree in a discipline other than ESL or applied linguistics and wish to be certified to teach ESL in a community college or university and (B) students who plan to teach EFL abroad.

Admission to the Program

Apply for formal admission to the program through the Division of Educational Foundations and Interdivisional Studies.

Requirements for the Certificate (minimum 32 units)

In addition to course requirements, a passing grade for UNIV 400, Writing Proficiency Examination (WPE), is required for issuance of the certificate. A minimum B (3.0) grade point average is required in all course work on the program. Refer to the Graduate and Postbaccalaureate Study chapter of this catalog for general regulations governing all certificate programs.

Required Courses (32 units)

The following sequence is recommended:

TESL 560	Theories of Teaching and Learning Second Languages (4)
TESL 561	Pedagogical Grammar for Teachers of ESL/EFL (4)
TESL 562	Methods for Teaching Second Languages (4)
TESL 564	Teaching ESL for Academic Purposes (4)
TESL 567A	Language Testing (4)
TESL 568	Practicum in English as a Second Language (4)
TESL 572	ESL/EFL Course, Syllabus, and Materials Design (4)
ENGL 401	English Language in America (4)

Optional Electives

Select with adviser approval.

ANTH 470/ENGL 403
 COMD 455, 456
 EDCI 453, 549
 EDFN 452
 EDSP 408

Optional Electives (cont'd)

ENGL 400, 403, 405, 504, 505
 EDIT 430
 TESL 565, 566, 567B*, 569,
 570, 571, 573AB*, 574, 597, 598

* May be repeated once for credit with prior approval of a TESOL advisor.

List of Courses - Undergraduate Level**Educational Foundations (EDFN)****Upper Division Courses****380 Education and Development in the Third World (4)
(also listed as LAS 380 and PAS 380)**

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block D. Comparative analysis of the systems of education in the Third World with particular emphasis to their educational problems and issues, and their relationship to economic development and social change.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

409 Tests, Measurement, and Evaluation (4)

Basic principles of educational measurement and evaluation; teacher-devised instruments and techniques; selection and interpretation of standardized tests; methods of marking and reporting.

413 Psychological Foundations of Education (4)

Psychological research and theory in human learning and development related to educational processes.

414 Social Foundations of Education (3)

Social issues related to educational processes in the U.S.

437 Education and Intergroup Relations (4)

Implications of community intergroup problems for schools, teachers, and administrators; educational problems resulting from *de facto* segregation, cultural differences, racial and ethnic discrimination, urbanization.

438 Traditional Asian-American Values in American School Setting (4)

Traditional Asian-American values as they relate to values found in American schools; ways in which these values reinforce or impede the teaching-learning process.

452 Statistics in Education (4)

Prerequisite: One year of algebra. Introduction to descriptive and inferential statistics basic to understanding and conducting educational research, including measures of central tendency, variability, covariability, sampling theory, interval estimation, testing statistical hypotheses.

490 Problems in Educational Foundations (2-5)

Prerequisite: Instructor consent. Investigation of unique problems in educational foundations. Specific subjects announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

499 Undergraduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Instructional Technology (EDIT)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

There is a special fee associated with registering for laboratory classes that carry this designation. Details appear in the *Schedule of Classes*.

Upper Division Courses**430 Introduction to Computers and Their Uses in the Classroom (4)**

Prerequisite: Multiple or Single Subject credential methods courses. Computer hardware, software, and related technology and their uses in and impact on society and education; hands-on experience with applications software, instructional software, and classroom management tools.

431 Advanced Computer Applications in Education (4)

Prerequisite: EDIT 430 or 447 or permission of instructor. The use of advanced computer tools in the K-12 school curriculum. Seminar 3 hours, activity 2 hours.

435 Computer Systems in Education (4)

Prerequisite: EDIT 430 or 447. Computing systems and their uses in education including computer hardware, operating systems local area networks, peripherals, and telecommunications equipment. Lecture 3 hours, laboratory 2 hours.

447 Computers in the Classroom (2)

Prerequisite: An introductory course in use of microcomputers. Survey of microcomputer applications in the classroom including software selection, computer use in and impact on the curriculum, methods of teaching computer literacy and classroom management.

451 Survey of Instructional Media and Technology (3)

Prerequisite: EDIT 430. Introduction to the M.A. programs in instructional technology, careers in instructional technology, instructional media design, and basic instructional technology software and hardware tools.

456 Computer Applications in Schools (4)

Computer applications in the areas of learning, teaching, and instructional management; problem-solving approach to design, development, and evaluation of computer education within teaching discipline and grade level. Lecture 3 hours, laboratory 2 hours.

472 World Builders (4)

Prerequisite: EDIT 430 or equivalent. A course of the future! Create planets-post them on the web! Create and evaluate original ideas, challenge knowledge. Explore future learning styles, broaden learning structures through use of technology.

484 Computer Authoring Tools (4)

Prerequisite: EDIT 430. Computer authoring tools and their uses in developing educational software; hands-on experience with various authoring tools.

490 Special Topics in Instructional Technology (2–5)

Prerequisite: Instructor consent. Investigation of unique problems and new developments in instructional technology as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

Graduate Level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the division and approval of the graduate adviser.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

Educational Foundations (EDFN)

500 Evaluation of Educational Research (4)

Criteria for evaluation of educational research; critical analysis of representative research reports. Survey of educational research methods, planning a research study, organization of a research report. Credit allowed for only one of EDFN 500, 509, and 553.

505 Qualitative Research in Education (4)

Introduction to qualitative research theory and methodology in education; interpretation, data collection, and analysis; practitioner research.

506 Comparative Education (4)

Prerequisite: EDFN 414. Selected foreign educational systems within context of their respective cultures. Particular attention to multilingual/multicultural and urban educational issues.

507 History of Education (4)

Prerequisite: Four units chosen from HIST 110ABC or 202AB. Historical analysis of current educational issues with particular attention to multilingual/multicultural and urban education problems.

508 Philosophy of Education (4)

Prerequisite: PHIL 151 or 152 recommended. Selected current philosophies of education and their applications to educative process. Particular attention to philosophical analysis of issues related to multilingual/multicultural and urban education.

510 Advanced Study: Learning Theory and Education (4)

Prerequisite: EDFN 413. Recent significant developments in learning theory with emphasis on classroom application.

520 Urban Education and Politics (4)

Urban power structure and its interaction with education.

525 Educational Sociology (4)

Prerequisite: EDFN 414. Application of insights of social sciences to education in areas of cultural anthropology, sociology, political theory, economics.

530 Advanced Study in Human Development (4)

Prerequisite: EDFN 413 or consent of the instructor. Recent significant contributions in human development research and theory; emphasis on the implications of human development for education.

531 Education of Potential Dropout Students (4)

Prerequisite: Teaching credential or consent of instructor. Identification of characteristics of students at risk of dropping out; review of related knowledge base for educators; introduction of competencies for teachers working with at-risk students, including evaluation of appropriate resource materials.

537 Educational Issues in Metropolitan Areas (4)

School issues in metropolitan areas as related to urbanization, socioeconomic stratification, racial and ethnic differences, desegregation and integration, community relationships, and control, school reform, federal and state aid, school personnel.

540 Bilingual Education Models: Theoretical Foundations (4)

Theoretical foundations for bilingual education models as established by national policy and empirical research and practices, including design, staffing, and assessment.

553 Educational Research and Decision Making (4)

Methods and tools of research and evaluation with implications for educational decision-making. Credit allowed for only one of EDFN 500, 509, and 553.

580 Field Work in Administration and Supervision of Bilingual/Crosscultural Program (3)

Prerequisite: Division approval. Administrative and supervisory experiences dealing with bilingual/crosscultural programs at school or district level. Graded CR/NC.

581 Bilingual/Crosscultural Advanced Field Work (2)

Prerequisites: Teaching credential, approval of bilingual/crosscultural advisory committee. Teaching in bilingual/crosscultural situations; demonstrating effective teaching techniques to teachers and parents; planning and conducting in-service meetings for teachers and paraprofessionals; critiques of existing programs; development of materials. Must be repeated to total of 4 units.

594 Selected Studies in Education (1–5)

Prerequisite: Consent of division chair. Intensive study of designated problems in education. May be repeated for credit as subject matter changes.

596 Comprehensive Exam (0)

Graded CR/NR

597 Graduate Research (1–4)

Prerequisites: EDFN 500 or 509, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded *CR/NC*.

598 Graduate Directed Study (1–4)

Prerequisites: A *B* (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599A Thesis or Project Planning (3)

Prerequisites: EDFN 452 or another advisor approved research course, and 500 or 553, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis or project proposal to thesis committee. Graded *CR/NC*.

599B Thesis or Project (2)

Prerequisites: EDFN 599A, written approval of thesis committee chair. Prior to completion, student will have submitted a final draft of thesis or project proposal to thesis committee. Graded *CR/NC*.

599C Thesis or Project (2)

Prerequisites: EDFN 599B, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded *CR/NC*.

Instructional Technology (EDIT)

501 Instructional Design of Mediated Instruction (5)

Prerequisites: EDIT 430, 451. Learning theories, instructional design models, planning effective instruction, screen display strategies, text and graphic integration, and systematic approach to design of mediated instruction.

540 Instructional Graphics Design and Production (5)

Prerequisites: EDIT 430, 451, 484. Theory and practice in design and production of instructional computer graphics for slides, prints and videos and computer displays. Principles of instructional design of graphics for mediated instruction. Seminar 5 hours.

550 Multimedia Design and Production (5)

Prerequisites: EDIT 430, 451 and 484. Analysis, design and production of multimedia for education and training. Hands-on experience with Adobe Photoshop and Adobe Premiere for digital video editing. Students need access to web. Lecture 5 hours.

554 Video Technology in Education (4)

Prerequisite: EDIT 451. Educational value and utilization of video technology in instructional settings; review and application of research; exploration of future uses of the medium.

556 Technology Leadership in Schools (5)

Prerequisite: EDIT 435, 451 and 501. Planning and developing technology resources for schools and school districts, staff development, funding technology in schools. School reform and technology.

557 Computer Assisted and Managed Instruction (5)

Prerequisites: EDIT 430, 451, 484 and 501. Fundamentals of information systems and current research for the design, development, and implementation of computer-assisted and managed instruction including tutorial, drill and practice, simulation, gaming and testing.

559 Advanced Instructional Television Design and Production (4)

Prerequisite: EDIT 451. Instructional design of educational TV/video; studio production techniques; educational research on video production; future of educational TV/video; teleconferencing and editing techniques. Lecture 3 hours, laboratory 2 hours.

560 Internet and the World Wide Web in Education (4)

Prerequisite: EDIT 430 (or EDIT 447 and CS 160) and EDIT 435, or permission of instructor. Using telecommunications and network hardware and software for accessing the internet. Using the World Wide Web to find, develop and use curricular applications. Using the internet as a research tool.

565 Distance Learning (5)

Issues related to distance learning at all levels of education. Relevant technologies, instructional design, theory, research, and model distance learning programs. Includes hands-on use of technology.

580 Applied Experience in Instructional Technology (4)

Prerequisites: Advancement to candidacy in MA in Education: Option in Instructional Technology or Computer Education. Examination of several instructional technology field settings. Supervised practicum with instructional technology manager.

594 Selected Studies in Instructional Technology (1–4)

Prerequisites: Consent of division chair; appropriate prerequisite. Advanced specialized topics involving instructional technology. May be repeated for credit as subject matter changes.

Teaching English to Speakers of Other Languages (TESL)

560 Theories of Teaching and Learning Second Languages (4)

Addresses major questions in the teaching and learning of second languages, such as how first language acquisition compares with second, the role of affective/cultural variables and theories underlying teaching methods.

561 Pedagogical Grammar for Teachers ESL/EFL

Prerequisite: ENGL 401, TESL 560. Consideration of the role of grammar in second/foreign language teaching and survey of the structure of English grammar for ESL/EFL teachers; strategies for presenting grammatical forms to non-native speakers.

562 Methods for Teaching Second Languages (4)

Prerequisite: TESL 560. Current instructional methods for teaching ESL/EFL to students at beginning through advanced levels (K-12, Adult).

564 Teaching English as a Second Language for Academic Purposes (4)

Prerequisites: TESL 560, 562. Teaching techniques for preparing ESL students for university-level academic study.

565 Using Computers in the Language Classroom (4)

Prerequisites: TESL 560; EDIT 430 or equivalent. This course explores the uses of computers in the language classroom (ESL & foreign language), including language learning through work processing, language practice, home-oriented & educational software, and the Internet.

566 English Phonetics for Second Language Teachers (4)

Prerequisites: ENGL 405, TESL 562. The phonetics of English and the phonetic phenomena that occur in the major languages of ESL learners in the U.S. A detailed study of sounds of American English and other "Englishes."

567A Language Testing (4)

Analysis of testing and evaluation in second language programs; emphasis on evaluating effectiveness of teacher-made tests and current standardized test instruments used for assessing language proficiency.

567B Current Issues in Language Testing (4)

Prerequisite: TESL 567A. Current specialized issues in language testing. Designed to explore topics from both theoretical and practical perspectives. Specific topics vary according to trends in the field. May be repeated to a maximum of 8 units for credit, with prior approval of a TESOL adviser.

568 Practicum in English as a Second Language (4)

Prerequisite: TESL 564. Supervised field experience in teaching English as a second language.

569 Language Planning and Language Policy (4)

Prerequisite: TESL 560. Survey of approaches to ESL/EFL language planning and policy including language maintenance, shift and standardization in multilingual and multicultural communities in the U.S. and abroad.

570 Educational Sociolinguistics (4)

Influences of community, home, and school on language acquisition process. Language policy, social and linguistic change, language variations described; current status assessed; related cultural and pedagogical issues raised.

571 Seminar: Discourse Analysis in the Language Classroom (4)

Prerequisite: TESL 560. A sociolinguistic analysis of interactional patterns, expectations, and communication strategies in the language classroom; emphasis on current studies with some direct experience in discourse analysis as a legitimate research method.

572 ESL/EFL Course, Syllabus and Materials Design (4)

Prerequisites: ENGL 401, TESL 560, 562. Survey of approaches to ESL/EFL course and syllabus design including materials selection, adaptation, development, and evaluation.

573A Seminar: Issues in Classroom Second Language Acquisition (4)

Prerequisites: EDFN 452 or 500, TESL 560. Current research as it illuminates the second language acquisition process in classrooms. May be repeated to a maximum of 8 units for credit, with prior approval of a TESOL adviser.

573B Current Issues in Second Language Research (4)

Prerequisite: TESL 573A. Current specialized issues in second language research. Designed to explore topics from both theoretical and practical perspectives. Specific topics vary according to trends in the field. May be repeated to a maximum of 8 units for credit, with prior approval of a TESOL adviser.

574 Educational Psycholinguistics (4)

Prerequisite: TESL 560. Survey of psycholinguistic research related to language learning and teaching. Addresses issues of comprehension, production, and acquisition. Related pedagogical issues are raised.

594 Special Topics (4)

Prerequisite: Instructor consent, division approval prior to registration. May be repeated for credit.

596 Comprehensive Examination (0)

Graded CR/NC.

597 Graduate Research (1-4)

Prerequisite: EDFN 500, Instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

598 Graduate Directed Study (1-4)

Prerequisite: B (3.0) grade point average in all graduate work in education, consent of division chair and of instructor to act as sponsor. Independent directed study of advanced topics in TESOL, regular conferences with sponsor. May be repeated for credit.

599A Thesis of Project Planning (3)

Prerequisites: EDFN 452 or another advisor approved research course, and 500 or 553, advancement to candidacy, written approval of thesis chair. Prior to completion, student will have completed draft of thesis or project proposal, selected a thesis committee, and submitted draft of thesis of project proposal to thesis committee. Graded CR/NC.

599B Thesis or Project (2)

Prerequisites: TESL 599A, written approval of thesis committee chair. Prior to completion, student will have submitted a final draft of project of thesis committee. Graded CR/NC.

599C Thesis or Project (2)

Prerequisites: TESL 599B, written approval of thesis committee chair. Completion of thesis of project under direct supervision of thesis committee. Graded CR/NC.

900 Graduate Studies (0)

Prerequisite: TESL 599ABC, instructor consent to act as sponsor, division approval. Graded CR/NC.

Department of

Electrical and Computer Engineering

School of Engineering and Technology

DEPARTMENT OFFICE

Engineering and Technology A317

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Electrical Engineering is the largest major field within engineering. Electrical engineers are involved in all aspects of electrical devices, from conceptual design to manufacturing. They are generally involved in one or more major areas such as solid state electronics, computers, electrical equipment, communications, controls, or power distributing equipment. Each of these major areas includes a number of subdivisions such as aviation systems, microwaves, and integrated circuits. Besides employment in research, development, and design, many electrical engineering graduates are involved in manufacturing, management, sales, and teaching. Careers are readily available in industry, government, research, and education.

The Faculty

Professors: Kodzo O. Abledu, Fred Daneshgaran, Kamran Karimlou, Jack G. Levine, Raj S. Ramchandani, Martin S. Roden, Helen A. Ryaciotaki-Boussalis (Chair), Sidney Soclof, Lili Tabrizi.

Associate Professors: George B. Killinger. N. Warter-Perez

Assistant Professor: Charles Liu

Emeriti: George B. Bouse, Roger Brandt, Leslie Cromwell, Louis W. Eggers, Jr., Robert Howard, M. Morris Mano, Victor Payse, Jr., Howard Schug, Harold Storch.

Undergraduate Programs

Bachelor of Science**Degree in Electrical Engineering**

The electrical engineering program offers instruction in the basic sciences and in engineering analysis and design. The upper division offerings provide a flexible, broad curriculum to enable each student to match talents and interests with career objectives. The major areas of course concentrations are circuits, communications, computers, controls, electronics, and power.

Requirements for the Major (150 units)**Lower Division Required Courses (63 units)**

CHEM 101	General Chemistry I (5)
EE 210	Electrical Measurements Lab (1)
EE 211	Electric Circuits Lab (1)
EE 244	Digital Engineering (4)
EE 290	Electrical Engineering Computing (3)
ENGR 100	Introduction to Engineering (1)
EE 204	Circuit Analysis I (4)
CE/ME 208	Statics and Strength of Materials (4)
MATH 206–209	Calculus I–IV (4 each)
MATH 215	Differential Equations (4)
PHYS 201–204	General Physics I-IV (4 each)
EE 242	"C" Programming for Engineers (4)

Upper Division Required Courses (48 units)

EE 304	Electric Machines (4)
EE 317	Electronics Laboratory I (1)
EE 320	Analog Communication Systems (4)

Upper Division Required Courses (cont'd)

EE 330	Writing for Electrical Engineers (1)
EE 332	Systems Analysis (4)
EE 334	Probability and Random Processes (4)
EE 336	Electronics (4)
EE 345	Microcomputer Programming (4)
EE 346	Digital Logic Laboratory (1)
EE 360	Control Systems Theory I (4)
EE 437	Electric and Magnetic Fields (4)
EE 496	ABC Senior Design I, II, III (2,1,1)
ENGR 300	Economics for Engineers (4)
ENGR 301	Ethics and Professionalism in Engineering (1)
PHYS 333	Applied Modern Physics (4)

Upper Division Electives (39 units)**Elective Lectures (20 units) (select five from following):**

EE 333, 342, 347, 371, 372, 411, 412, 420, 421, 422, 423, 424, 425, 426, 430, 432, 433, 434, 436, 439, 445, 449, 460, 461, 462, 472, 473, 483

Elective Laboratories (2 units)

EE 314, 321, 340, 418, 443, 448, 468, ENGR 499

Upper Division Mathematics Elective (4 units)

Select one from following:

MATH 325, 402A, 403, 474

Upper Division Specialization (13 units)

With adviser approval, select a specialization that includes three lecture courses plus one laboratory course.

Graduate and Postbaccalaureate Programs

Master of Science

Degree in Electrical Engineering

The Master of Science degree in Electrical Engineering at Cal State L.A. is structured to prepare students for advancement in employment with opportunities in design, research, and development, as well as for further study at the doctoral level. Classes are offered year-round on the quarter system to accommodate the needs of working professionals.

Requirements for the Degree (45 units)

Area of Specialization (24-37 units)

Select a minimum of 24 units in 500-level engineering courses; at least 16 units must be selected from the following electrical engineering courses.

EE	520	Advanced Digital Communications I (4)
EE	521	Advanced Digital Communications II (4)
EE	522	Principles of Signal Compression (4)
EE	530	Linear Systems Analysis (4)
EE	533	Computer Methods in Power Systems (4)
EE	534	Power Systems Stability (4)
EE	536	ABC Solid State Electronics I, II, III (4, 4, 4)
EE	544	Digital Systems Design (4)

Area of Specialization (cont'd)

EE	547AB	Computer Architecture (4, 4)
EE	561	Stochastic Systems and Estimation (4)
EE	562	Advanced Digital Control Systems (4)
EE	563	Optimal Control Theory (4)

Electives in Engineering (0-13 units of 400 or 500-level courses)

Elective in related fields (4 units)

MATH 402A (4 units) must be included in these electives unless already completed.

Typical courses are:

MATH	402B, 474, 580
PHYS	426AB, 510AB
CS	440, 442, 432, 450, 460, 488

Comprehensive Examination or Thesis (0-4 units)

ENGR 596 Comprehensive Examination (0) or
ENGR 599 Thesis (4)

Students who select the comprehensive examination (ENGR 596) should expect to take it in the quarter they complete all course work on their program, and must comply with school and departmental requirements.

List of Courses (EE) - Undergraduate Level

Lower Division Courses

154 Special Topics in Electrical Engineering (1-4)

Prerequisites: Instructor consent and as needed for specific topic. Current topics of special interest to students in electrical engineering, as announced in Schedule of classes. May be repeated to maximum of 8 units. Permission needed by ECE department.

204 Circuit Analysis I (4)

Prerequisites: MATH 208, PHYS 203. Electric circuit analysis, transient and steady state; and introduction to frequency response.

210 Electrical Measurements Laboratory (1)

Prerequisite: PHYS 203. Characteristics and limitations of analog and digital electrical and electronic instrumentation, signal sources, and d-c power supplies. Analysis, tabulations, and graphical presentation of measurement data and technical report writing. Laboratory 3 hours.

211 Electric Circuits Laboratory (1)

Prerequisite: EE 204. Experimental verification of the laws of electric circuits. Laboratory 3 hours.

242 C Programming for Electrical Engineers (4)

Prerequisite: EE 290, EE 204. Introduction to program design and problem solving using the C programming language. Programming topics include control structures, functions, arrays, pointers, and file I/O. Programming projects include electrical engineers applications.

244 Digital Engineering (4)

Prerequisite: PHYS 203. Binary systems; Boolean functions and their simplification; introduction to analysis and design of digital systems.

290 Electrical Engineering Computing (3)

Prerequisites: CS 290 with C grade or higher, MATH 209, PHYS 203. Use of computers in electrical engineering; hardware, software; languages; algorithms; structured design; spreadsheets; graphics; word processing; curve fitting; SPICE and other electrical engineering applications.

Upper Division Courses

In addition to prerequisites listed for individual courses, ENGL 102*, SPCH 150, and EE 290 are prerequisite to all upper division EE courses.

*Students subject to catalogs prior to 1997-1999 satisfy this prerequisite with ENGL 101 or 190.

304 Electric Machines (4)

Prerequisite: EE 204 with C or higher grade. Electromechanical principles and applications to electric machines.

314 Electromagnetic Energy Conversion Laboratory (1)

Prerequisites: EE 304, EE 211. Laboratory investigations of electromechanical machines. Laboratory 3 hours.

317 Electronics Laboratory I (1)

Prerequisites: EE 211, EE 210, 336. Laboratory study of semiconductor devices and applications in basic circuits. Laboratory 3 hours.

320 Analog Communication Systems (4)

Prerequisite: EE 334. Bandwidth requirements of audio, video, and pulse signals; carrier communications systems; types of modulation; communication circuits; transmitters and receivers.

321 Communications Laboratory (1)

Prerequisites: EE 317; 320 (may be taken concurrently). Laboratory investigations of characteristics of communication systems and components. Laboratory 3 hours.

330 Writing for Electrical Engineers (1)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); EE 332, 336. Writing for electrical engineers. Intensive practice in writing abstracts, reports, reviews, and other forms of technical writing. Some oral presentations required. Laboratory 3 hours.

332 Systems Analysis (4)

Prerequisites: EE 204 with C or higher grade; MATH 215. Linear systems analysis by Fourier and Laplace transform and state space methods; complete system response and system applications.

333 Circuit Analysis II (4)

Prerequisite: EE 332. Analysis of electric circuits with use of state variables and Laplace and Fourier transforms; two ports and filters.

334 Probability and Random Processes (4)

Prerequisite: EE 332. Random variables, bivariate probability distributions, multiple random variables, random processes, introduction to noise analysis; applications to engineering problems.

336 Electronics (4)

Prerequisite: PHYS 333. Analysis and design of small-signal and large-signal electronic amplifiers; frequency response; feedback.

340 Electronics Laboratory II (1)

Prerequisite: EE 317. Laboratory study of electronic amplifier circuits. Laboratory 3 hours.

342 Introduction to Software Engineering (4)

Software engineering concepts and techniques; structured design and modular construction; use of Pascal to demonstrate fundamentals of programming style; high-level language programming for microprocessors.

345 Microcomputer Programming (4)

Prerequisite: EE 244. Organization and structure of microcomputer systems; machine and assembly language programming; system software for microcomputers.

346 Digital Logic Laboratory (1)

Prerequisites: EE 244, EE 211. Laboratory experiments in logic design of digital systems. Laboratory 3 hours.

347 Computer Logic Design (4)

Prerequisite: EE 244. Integrated circuit digital functions; design of computer system by means of register transfer method; processor unit design; control logic design; design of general purpose computers.

360 Control Systems Theory I (4)

Prerequisite: EE 332. Analysis and design of feedback control systems by classical methods; introduction to state-variable methods.

371 Analog Electronics (4)

Prerequisite: EE 336. Multistage amplifiers; frequency and time-domain response; feedback; tuned amplifiers; distortion; power amplifiers; operational amplifiers.

372 Digital Electronics (4)

Prerequisites: EE 244, 336. Switching mode circuits; diode circuit applications; opto-electronic devices; TTL, CMOS, ECL families; logic gates; SSI, MSI, LSI circuit functions.

400-level Courses

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

411 Waveguides and Transmission Lines (4)

Prerequisite: EE 437. Guided waves, waveguides, and transmission lines; design of waveguides and cavity resonator.

412 Antennas (4)

Prerequisite: EE 437. Dipole, loop, aperture, and other antennas; array theory, antenna patterns, and pattern multiplication; radiation resistance, directivity, and gain; antenna synthesis and design.

418 Electromagnetics Laboratory (1)

Prerequisites or corequisites: EE 411, 412. Transmission line parameters, attenuation, reflected waves, characteristics of waveguides and waveguide parameters; antenna patterns.

420 Digital Communication Systems (4)

Prerequisite: EE 320. Analysis and design of digital communication systems; source encoders; PCM; matched filter detectors; timing considerations; baseband systems; ASK, FSK, PSK; error analysis; design considerations.

421 Coding for Communications (4)

Prerequisite: EE 320. Information theory; entropy coding; data compression; forward error detection and correction.

422 Digital Signal Processing I (4)

Prerequisite: EE 320. Sampling, A/D conversion; discrete linear system theory; Z-transform; digital filters, recursive and nonrecursive designs; quantization effects; fast Fourier transform; windowing.

423 Digital Signal Processing II (4)

Prerequisite: EE 422. Discrete random signals; finite word length effects; adaptive filters; high resolution spectral estimation.

424 Fiber Optics (4)

Prerequisites: EE 320, 437. Generation, transmission, and modulation of beams, propagation of optical beams in homogeneous and inhomogeneous media; electro-optic modulation of laser beams.

425 Data and Computer Communications (4)

Prerequisite: EE 320. Data communications, data communications networks, computer communications architecture, and integrated services digital networks.

426 Digital Image Processing (4)

Prerequisite: EE 320. Digital image fundamentals, image transforms, image enhancements, image restoration and image encoding.

430 Computer Aided Network Design (4)

Prerequisites: EE 333, 336. A study of computer programs for solution of electronic and passive networks. Analysis and design of circuits using existing computer programs.

432 Power Transmission Lines (4)

Prerequisite: EE 304. Function and structure of power systems, transmission lines, generalized circuit constants, circle diagrams, system representation.

433 Electric Power System Analysis (4)

Prerequisite: EE 432. Load-flow studies, load-flow control, symmetrical components, short circuits on machines and systems, system protection, elements of system stability, economic operation.

434 Electromagnetic Energy Conversion (4)

Prerequisite: EE 304. Analysis of realistic machine performance; steady state and dynamic response of d-c, synchronous and induction machines; fractional horsepower a-c motors.

436 Analog Integrated Circuits (4)

Prerequisite: EE 371. Analysis, design, and characteristics of operational amplifiers, voltage comparators and regulators, analog-to-digital, and digital-to-analog converters.

437 Electric and Magnetic Fields (4)

Prerequisite: EE 332. Static field theory and applications; Maxwell's equations and applications; electromagnetic waves; introduction to transmission lines.

439 Digital Integrated Circuits (4)

Prerequisites: EE 336, 372. In-depth study of logic families aided by computer analysis; LSI and VLSI, circuit design; regenerative circuits; memories; A-D converters.

443 Digital and Timing Circuits Laboratory (1)

Prerequisites: EE 317; 439 (may be taken concurrently). Laboratory experiments in design of digital, timing, and pulse forming electronic circuits. Laboratory 3 hours.

445 Microprocessor Interface Design (4)

Prerequisites: EE 345, 372; 347 (may be taken concurrently). Microprocessor architecture and timing; bus structures; memory system design; parallel and serial input/output; interrupts and timers; analog-digital and digital-analog conversion.

448 Digital Design Laboratory (1)

Prerequisites: EE 346; 347 (may be taken concurrently). Hardware design of digital computer functions with MSI and LSI integrated circuits. Laboratory 3 hours.

449 Computer Organization (4)

Prerequisite or corequisite: EE 347. Central processor unit organization; microprocessor architecture; control unit organization; microprogramming; input-output, interface; microcomputer hardware organization.

454 Special Topics in Electrical Engineering (1-4)

Prerequisites: Senior standing in engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced engineering subjects upon approval of instructor. Permission needed by department.

460 Control Systems Theory II (4)

Prerequisite: EE 360. Design of multiple-loop, multiple-signal control systems; nonlinear control systems; computers and optimization.

461 Discrete-Time Control Systems (4)

Prerequisite: EE 360. Discrete-time signals; difference equations; Z-transform; modified Z-transform; stability analysis techniques; design of digital controllers; state space representations of linear discrete systems; controllability and observability.

462 State Space Control Systems (4)

Prerequisite: EE 360. State space representation; linear transformation; solution of state equations, model decomposition, equivalent systems; controllability, observability, duality theorem; stability analysis; design by state and output feedback.

468 Control Systems Laboratory (1)

Prerequisite or corequisite: EE 360. Analysis and design of fundamental control systems by model and full-scale construction in laboratory, and by employing root-locus, frequency response, analog simulation, and other standard techniques. Laboratory 3 hours.

472 Optoelectronic Systems Design (4)

Prerequisite: EE 336. Characteristics and applications of optoelectronic devices and systems including photodiodes and phototransistors, image sensors, light-emitting diodes and laser diodes, and fiber optic systems.

473 Television Systems Design (4)

Prerequisites: EE 320, 371. Video and audio circuits and systems; amplitude, frequency, phase and pulse modulation techniques used in television systems.

481 Introduction to Robotics (4) (also listed as ME 481)

Prerequisite: EE 360 or ME 410. General considerations of robotic manipulator; spatial description, homogeneous transformations; manipulator kinematics; inverse manipulator kinematics; motion trajectories; static forces.

483 Power Electronics (4)

Prerequisite: EE 336. Electrical and thermal characteristics of power thyristors, BJTs and FETs, diodes, triacs, diacs, and UJTs; applications in energy conversion and control switching power supplies, converters, and inverters.

491 Robotics Laboratory (1)

(also listed as ME 491)

Prerequisite or corequisite: EE/ME 481. Robot system installation; programming and languages; link kinematics and motion planning; control of the arm; automated manufacturing and computer-integrated manufacturing (CIM).

496A Senior Design I (2)

Prerequisites: Selection of upper division specialization within EE option; EE 330. The design process; selection of a design project; preliminary report required.

496B Senior Design II (1)

Prerequisite: EE 496A with grade of C or higher. Initial phases of implementation of senior design project for which proposal was developed in EE 496 A.

496C Senior Design III (1)

Prerequisite: EE 496B with grade of C or higher. Completion of design project initiated in EE 496AB. Final written and oral report are required.

499 Undergraduate Directed Study (1-4)

Prerequisites: Permission needed by department. Project selected in conference with the sponsor before registration; progress meeting held regularly, and a final report submitted. May be repeated for credit.

Graduate Level Courses (EE)

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses

520 Principles of Communication Theory I (4)

Prerequisites: EE 420, MATH 402A. Comparative analysis of the following information transmission systems; AM, FM, PPM, and PCM. Introduction to statistical methods in analysis of information transmission systems.

521 Principles of Communication Theory II (4)

Prerequisites: EE 520, MATH 402A. Transmission and filtering of random signals. Causal and noncausal filters; communication of digital data in the presence of noise.

522 Detection of Signals in Noise (4)

Prerequisite: EE520. Techniques for detection of both known and unknown signals with unknown parameters in presence of noise. Discussion of hypothesis testing, likelihood functions, receiver configurations, and basic estimation theory.

530 Linear Systems Analysis (4)

Prerequisites: EE 430, MATH 402A. Review of transform methods; inverse transforms by contour integration; state space variable, properties of network functions and network parameters; time domain analysis; positive real functions.

533 Computer Methods in Power Systems (4)

Prerequisites: EE 332, 433. Algorithms for formulation of network matrices; short-circuit studies on computers; iterative solutions of algebraic and differential equations; digital computer techniques for load flow.

534 Power System Stability (4)

Prerequisites: EE360, 533. Steady state and transient stability of electric power systems; stability criterion; emphasis on digital computer techniques as applied to stability problems of electric power systems.

536A Solid State Electronics I (4)

Prerequisite: EE 436. Characteristics of solid state electronic devices; fabrication of discrete devices and integrated circuits; analysis and characteristics of integrated circuits.

536B Solid State Electronics II (4)

Prerequisite: EE 536A. Continuation of Solid State Electronics I; characteristics and applications of integrated circuits.

536C Solid State Electronics III (4)

Prerequisite: EE 536B. Applications of integrated circuits; metal-oxide-silicon devices; optoelectronics.

544 Digital Systems Design (4)

Prerequisite: EE 449. Advanced study of selected topics in digital systems design. Design automation techniques; digital simulation; computer elements.

547AB Computer System Architecture (4, 4)

Prerequisite: EE 449. (EE 547A is prerequisite to 547B.) Computational algorithms and the arithmetic processor, central control and microprogramming, input-output processors, data communication processors and time-sharing systems.

561 Stochastic Systems and Estimation (4)

Prerequisite: EE334 and 360. Stochastic processes, power spectrum analysis, response of linear systems to stochastic inputs, Markov chains, estimation theory and Kalman filtering, applications to control and communications.

562 Advanced Digital Control Systems (4)

Prerequisite: EE 461 and 462. Signal flow graphics, state equations with sample and hold; state transition equation, eigenvalues and eigenvectors; state diagram, controllability and observability ; pole placement design, microprocessor and DSP control

563 Optimal Control Theory (4)

Prerequisite: EE 462. Optimal control; performance measures; principle of optimality; dynamic programming; Hamilton Jacobi-Ballman equation; variational approach; constrained extrema; Pontryagin principle, necessary conditions; solution techniques; singularity cases; applications.

596 Comprehensive Examination (0)

Prerequisites: Permission needed by department. Students who select the comprehensive examination (EE 596) should expect to take it the quarter they complete all course work on their program, and must comply with school and department requirements.

597 Graduate Research (1-5)

Prerequisites: Permission needed by department. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Grade CR/ NC. Instructor consent to act as sponsor, departmental approval of project prior to registration.

598 Graduate Directed Study (1-4)

Prerequisites: Permission needed by department. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit. Instructor consent to act as sponsor.

599 Thesis (1-4)

Prerequisites: Permission needed by department. Independent research in a thesis. Must be repeated to maximum of 4 units. Graded CR/ NC. Advancement to candidacy, instructor consent to act as sponsor, school approval of the topic prior to registration.

Department of**English**

School of Arts and Letters

DEPARTMENT OFFICE

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Email: english@calstatela.edu

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The English Department at Cal State L.A. offers programs leading to the Bachelor of Arts and Master of Arts degrees. These programs encourage students to develop their minds, imaginations, and skills through the study of literature and other forms of written communication. The department offers a broad spectrum of courses ranging from the traditional areas of British and American literature to such subjects as world literature in translation, ethnic literature of the U.S., women writers, folklore, children's literature, creative writing, critical theory, history and structure of the English language, film, and many levels of composition.

Majoring in English offers students many advantages for both intellectual and personal development and provides a solid preparation for a number of careers. Most directly, a bachelor's degree in English, Single Subject Teaching option, with the required professional training in education, qualifies the individual to teach English in secondary schools. But teaching is only one of the many professions that welcome the English major. The discipline requires and helps develop solid reading, writing, and critical thinking skills. Literary study provides the complex understanding of human experience that is essential for success in many fields. Many graduates in English enter law schools, medical schools, business administration, and civil service at all levels of government. There are opportunities in insurance, publishing, space industries, foundations, public utilities, personnel relations, banks, advertising, and the print media.

The Master of Arts degree in English provides opportunities for advanced study in literature, criticism, language, creative writing, and composition and rhetoric. The program is offered with three options. The General option is designed for students planning to teach in a community college or to enter a doctoral program. The Creative Writing option is designed for students seeking to develop their skills as creative writers, to teach creative writing, or to pursue careers in the media or other areas where a combination of creative ability, communication skills, and critical faculties may be particularly valuable. The Composition, Rhetoric, and Language option is designed for students planning to teach writing at the school, community college, or university level, to work as professional writing consultants, or to enter doctoral programs.

The Faculty

Professors: Betty Bamberg, Sharon Bassett, Alfred Bendixen, John L. Cleman, Rosemary L. Hake, Steven S. Jones, Barry Munitz, Elaine Osio, Alice M. Roy, Carl M. Selkin, Timothy Steele, James T. Sullivan.

Associate Professors: Mary E. Bush, Michael A. Calabrese, Hema Chari, Marilyn R. Elkins, Jun Liu, Ruben D. Quintero, Alison Tauffer.

Assistant Professors: Madlyn Detloff, Martin Huld, Caroline McManus, Andrew Stauffer.

Emeriti: Edward Abood, Daniel A. Amneus, Gerhard H. Brand, Peter A. Brier, Morton J. Cronin, Saralyn R. Daly, Otto W. Fick, Norman Fruman, David Laird, Herbert J. Landar, Jean Maloney, Marie Ohlsen, Thomas H. Peterson, Vilma Potter, John W. Rathbun, Sidney Richman, Clarence K. Sandelin, Gaby Stuart, John H. Weston, Paul M. Zall.

Undergraduate Programs**Bachelor of Arts Degree**

Students pursuing the Bachelor of Arts degree in English select one of two program options. The General option is intended for those pursuing a liberal arts education with special emphasis on literature and composition; the Single Subject Teaching option is designed for students interested in a career in education.

All students electing to major in English must request advisement in the Department of English upon beginning course work in their major. Those majoring in English are urged to acquire command of at least one foreign language as part of their program.

Requirements for the Major (76 or 80 units)

The General option requires a total of 76 units and the Single Subject Teaching option requires a total of 80 units.

General Option (76 units)**Lower Division Required Courses (8 units)**

ENGL 200A The Classical and Medieval Tradition (4)

Select one from the following (4 units):

ENGL 200B British Literature Survey I (4)

ENGL 200C British Literature Survey II (4)

Upper Division Required Courses (16 units)

ENGL 340 Writing the Critical Essay (4)

ENGL 401 English Language in America (4)

ENGL 417 Shakespeare I (4)

ENGL 441 Major Critics (4)

Required in British, American, and World Literature (36 units)

British Literature (16 units)

Select four 400-level courses in British literature, from the following, with at least two in pre-1800 literature:

ENGL 416, 418, 419, 446, 460, 461, 463, 464, 465, 447, 467, 468, 478*, 479*

*requires advisor approval

American Literature (12 units)

ENGL 471 American Literature: Beginnings to 1860 (4)
ENGL 472 American Literature: 1860–1914 (4)
ENGL 473 American Literature: 1914–Present (4)

World Literature (8 units)

Select two from: ENGL 424, 425, 427, 428, 484, 485, 486

Undergraduate Seminar (4 units)

Select one from: ENGL 495, 496, 497, 498

Electives (12 units)

Select three 300- or 400-level ENGL courses excluding GE theme courses. With adviser approval, one 200-level course may be included.

Single Subject Teaching Option (80 units)

Refer to the Charter School of Education section in the *Academic Programs: School-based and University-wide* chapter of this catalog for regulations governing all teaching credential programs.

Lower Division Required Courses (8 units)

ENGL 200A The Classical and Medieval Tradition (4)

Select one from the following (4 units):

ENGL 200B British Literature Survey I (4)

ENGL 200C British Literature Survey II (4)

Upper Division Required Courses (64 units)

Composition (8 units)

ENGL 340 Writing the Critical Essay (4)

ENGL 410 Writing in the Schools (4)

Critical Theory (4 units)

ENGL 441 Major Critics (4)

Language (8 units)

Required Course (4 units)

ENGL 301 Introduction to Language (4)

Select one from the following (4 units):

ENGL 401, 402, 403, 405, SPCH 367, 467, 478, 489

Literature (40 units)

British Literature (16 units)

Required Course (4 units)

ENGL 417 Shakespeare I (4)

Select two: ENGL 416, 418, 419, 446, 460, 461, 463, 464, 465

Select one: ENGL 447, 467, 468, 478*, 479*

*adviser approval required

American Literature (8 units)

Select two: ENGL 471, 472, 473

World Literature in Translation (4 units)

Select one from the following:

ENGL 424, 425, 426, 427, 428, 453, 482, 484, 485, 486

JAPN 307

TA 311, 312

Ethnic Literature (4 units)

ENGL 476 Ethnic Literature in the U.S. (4)

Additional courses in British or American Literature (4 units)

Select one from the following:

ENGL 416, 418, 419, 446, 447, 460, 461, 463, 464, 465, 468, 471, 472, 473, 478, 479

Undergraduate Seminar (4 units)

Select one from: ENGL 495, 496, 497, 498

Capstone Course (4 units)

ENGL 494 Literary Study and the Teaching Profession: A Capstone Course in the English Major for Prospective Teachers (4)

Electives (8 units)

With adviser approval, select two 300 or 400-level courses in English or closely related disciplines (excluding GE Theme courses). May include one 200-level course with adviser approval.

Minor in Creative Writing

The minor in Creative Writing is designed for students majoring in other fields who are interested in the writing of imaginative literature, which may include such forms as poetry, fiction, and drama. A total of 24 units is required, of which 8–12 units must be in lower division and 12–16 units in 400-level courses.

Requirements for the Minor (24 units)

Lower Division Required Courses (8 or 12 units)

Select one or two from the following (4 or 8 units):

ENGL 200ABC, 225

(Prerequisite to ENGL 207 for students in the creative writing minor is at least 4 units from the lower division requirement listed above.)

Required course (4 units)

ENGL 207 Beginning Creative Writing (4)

Electives (select 12–16 units with adviser approval)

ENGL 406 Writing Nonfiction (4)

*ENGL407 Writing Fiction (4)

*ENGL408 Writing Poetry (4)

BCST 429 Broadcast and Film Writing (4)

TA 476 Play Writing (4)

*May be repeated once for credit in the minor.

Minor in English

The minor in English provides a varied and flexible literary program, individually planned, for majors in other fields. Students who plan to write or edit or who are interested in business, the professions, or government service may find this minor significant in their career development. The minor is also useful to students who wish to add a supplementary authorization to their Single Subject credential. A total of 28 units is required.

Requirements for the Minor (28 units)

Lower Division Required Courses (8–12 units)

Select at least two from the following: ENGL 200ABC, 250, 258

Upper Division Required Courses (16–20)

Select from following:

Composition: ENGL 308, 340, 406, 410

Language: ENGL 401, 402, 405

Literature: ENGL 416-447, 460-498

The Credential Program

Students who complete the Bachelor of Arts degree in English, Single Subject Teaching option, with a minimum 2.83 grade point average for course work in the option, will receive certification of subject area competency in English for the Single Subject credential. Students should consult advisers in the department and in the Charter School of Education.

English as a Second Language Programs

Students in need of a course in English as a second language may wish to consult the Office of Continuing Education or the American Culture and Language Program.

Graduate and Postbaccalaureate Programs

Master of Arts Degree

Admission to the Program

Applicants must have a baccalaureate in English and a 2.75 grade point average in the last 90 quarter units. Students whose major was not English should consult the principal graduate adviser about prerequisites or their equivalents. They must complete a 36-unit program of upper division prerequisites (which may include courses previously taken) prior to beginning their graduate work.

Requirements for the Degree (45 units)

A minimum of 45 units is required, with at least 23 in 500-level courses. Students must have completed course work, at either the undergraduate or graduate level, in major periods of British and American literature. Consult the Department of English for specific requirements and period descriptions.

Applicants for the Creative Writing option must submit a portfolio of writing for review by a department admissions committee.

Students preparing for the M.A. degree in English must complete ENGL 500 prior to enrolling in ENGL 510, 530, 541, 560, 570, 580, 590, and 598 (ENGL 500 may be taken concurrently with 510 or 541).

Required Core (12 units)

ENGL 500 Methodology of Graduate Research in English (4)
 ENGL 510 Seminar: Historical Criticism (4)
 ENGL 541 Seminar: Contemporary Critical Approaches (4)

Option in Composition, Rhetoric, and Language (33 units)

Required Composition-Rhetoric Core (12 units)

ENGL 504 Seminar: Theories of Composition and Rhetoric (4)
 ENGL 505 Seminar: Language and Literacy (4)
 ENGL 550 Seminar: Topics in Composition, Rhetoric, and Language (4)

Electives (16 units)

8 units of electives must be fulfilled by courses in literature. The remaining units of electives may be fulfilled by courses in composition-rhetoric, linguistics, literature, or creative writing. Select from 400 or 500-level courses with adviser approval. A maximum of 4 units of ENGL 598 may also be included.

Thesis (5 units)

The thesis entails writing a master's degree essay about a subject in the field of language, composition and rhetoric. Theses may be of two kinds, a critical essay or an empirical study. A critical essay might, for example, critique or reanalyze a particular body of research or the work of a single researcher, or present a rhetorical analysis of text. A theory-based empirical approach might test new hypotheses or replicate earlier studies with a different population.

Option in Creative Writing (33 units)

Required Creative Writing Core (12 units)

With adviser approval, select 12 additional units from creative writing courses, including at least 4 units of ENGL 507. The remaining 8 units may derive from some combination of the following courses: ENGL 406, 407, 408, 507. ENGL 507 may be taken concurrently with ENGL 500.

Electives (16 units)

Select 400 or 500-level courses with adviser approval. Students are to select courses in literature with particular relevance to the focus of their creative work. A maximum of 4 units of ENGL 598 may also be included.

Thesis (5 units)

Students selecting the Creative Writing Option must write a creative thesis typically consisting of three or so short stories of 3,000-5,000 words or a novella or a substantial portion of a novel, or two one-act plays, or a full-length play, or between 12 and 20 short poems. The thesis is to include a brief preface, stating the literary, ethical, or social concerns that have informed the student's work.

To begin work on the thesis the student must have been advanced to candidacy and must have formal approval of the thesis proposal by a thesis director and by the graduate studies committee. Student must complete 5 units of ENGL 599. (One unit of ENGL 599 is to be devoted to preparation of the thesis proposal. A student may not enroll in the remaining 4 units of ENGL 599 until the proposal has been approved.) The student will be required to defend the thesis before a committee of three, one member being the student's thesis director and one member being a member of the faculty from outside the creative writing area. The third member may be either from the creative writing area or from a different area.

Option in Literature (33 units)

Required Core (12 units)

With adviser approval, students select 12 additional units from 500-level ENGL courses. At least one course must be in the area of specialization selected for the comprehensive examination or thesis.

Electives (16–21 units)

Select from 400 or 500-level ENGL courses with adviser approval; 8 units may be in a related field. A maximum of 5 units in ENGL 598 is applicable toward the degree.

Comprehensive Examination or Thesis (0, 5 units)

ENGL 596 Comprehensive Examination (0) *or*

ENGL 599 Thesis (5)

Students must successfully complete either the comprehensive examination or a master's degree thesis as the culmination of their program. Students are expected to have selected an area of specialization as reflected in course work in preparation for either the examination or the thesis.

Comprehensive Examination (0 units)

One section of the comprehensive examination will focus specifically on the student's chosen area of specialization and the other portion of the examination will assess the student's general critical skills and ability to elucidate and interpret a designated text.

The comprehensive examination (ENGL 596) may be taken no earlier than the quarter in which all course work for the degree is completed. Students must notify the department one quarter before they intend to take the examination.

Advancement to candidacy and approval of the department's Graduate Studies committee are required prior to taking the examination.

Thesis (5 units)

The thesis option entails writing a master's degree essay about a subject in the student's area of specialization. Students who choose to do a thesis are subject to the following requirements: advancement to candidacy, formal approval of the thesis proposal by a thesis director and by the graduate studies committee, enrollment in 5 units of ENGL 599, and an oral defense of the thesis. (One unit of ENGL 599 is to be devoted to preparation of the thesis proposal. A student may not enroll in the remaining 4 units of ENGL 599 until the proposal has been approved.)

List of Courses – Undergraduate Level

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. AMER 499

Courses in American Studies (AMER)**Lower Division Courses****250 The Child in American Culture (4)**

Concepts of the nature and cultural role of the child from colonial days to present.

254 Special Topics in American Studies (4)

Prerequisites: As needed for specific topic. Current topics of special interest in American Studies as announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit.

Upper Division Courses**350 America in Great Books (4)**

Prerequisite: Lower division GE requirements in social sciences, humanities, and communication. Selected books in humanities and social sciences which, besides being outstanding in their respective fields, have influenced the character of American society.

354 Mini-Topics in American Studies (1–6)

Short-term variable-content course on topics of special interest. Unit credit will vary according to subject. May be repeated to maximum of 8 units.

401 Study of American Culture (4)

Interdisciplinary study of American culture; materials, methods, and problems in study of a civilization in comprehensive terms.

402 Ideas in America (4)

Significant social, political, economic, religious, and philosophic concepts reflected in representative statements, ranging from historical documents to imaginative literature.

403 American Popular Culture (4)

Philosophical, psychological, aesthetic, and social implications in mode and meaning of representative American mass media.

404 Avant-Garde in American Life (4)

Examination of a number of movements on frontiers of American intellectual life.

405 Folklore in American Culture (4)

Prerequisite: Lower division GE requirements. Types and forms of American folklore and their significance for American society.

490 Selected Topics in American Studies (4)

Prerequisites: AMER 401, one other AMER course. Intensive study of selected topics in American culture; subjects vary. May be repeated to maximum of 8 units.

499 Undergraduate Directed Study (1–4)

Prerequisites: Consent of an instructor to act as sponsor, approval of coordinator. Project selected in conference with sponsor before registration; progress meetings held regularly and final report submitted. May be repeated to a maximum of 8 units for credit.

Courses in English (ENGL)

Eligibility for ENGL 095, 096, and 101 will be determined by results of the English Placement Test (EPT), which students must take before they may register for any of these courses.

Subcollegiate Courses**095 Basic Writing I (4)**

Prerequisite: English Placement Test (placement determined by student's score). Instruction in invention, revision, sentence construction, paragraph development, and English usage in personal experience essays. Graded CR/NC. Not open to students with credit for this course, an equivalent, or a higher level English composition course. Students with two NC grades may not enroll again. No credit toward baccalaureate.

096 Basic Writing II (4)

Prerequisite: English Placement Test (placement determined by student's score) or passing grade in ENGL 095. Frequent essays based on reading and responding to expository prose; instruction in expository writing conventions. Graded CR/NC. Not open to students with credit for this course, an equivalent, or a higher level English composition course. Students with two NC grades may not enroll again. No credit toward baccalaureate.

Lower Division Courses**100 Supplemental Writing Practice (1)**

Prerequisite: Permission of the instructor, concurrent enrollment in English 101 or 102 or other designated course. Supplemental practice in revising and editing essays. Regular meetings with Writing Center tutor. May be repeated to maximum of 4 units. Graded CR/NC.

101 Composition I (4)

Composition I: Reflective and Expository Writing
Prerequisite: English Placement Test or completion of ENGL 096. Reading and writing to develop and communicate ideas. Instruction in basic strategies for planning, composing, and revising college writing. Use of authorities, examples, arguments and facts. Graded A,B,C/NC.

GE A1

102 Composition II (4)

Composition II: Analytic and Persuasive Writing

Prerequisite: ENGL 101 or equivalent. Reading and writing to develop interpretive and persuasive strategies. Instruction in writing for specific audiences. Use and analysis of technical, logical, and emotional arguments. Graded A,B,C/NC.

ENGL 102 or its equivalent is prerequisite to all English courses with higher numbers.

195 The Research Essay (4)

Prerequisite: Passing grade in ENGL 102*. Instruction in the preparation, mechanics, and style of a research essay. Graded A,B,C/NC.

200A The Classical and Medieval Tradition (4)

Prerequisite: ENGL 102*. Survey of classical and medieval literature in the European tradition. Frequent compositions on various literary topics.

200B British Literature Survey I (4)

Prerequisite: ENGL 102*. A survey of essential literary texts from the Medieval Period through the Restoration. Frequent compositions on literary topics.

200C British Literature Survey II (4)

Prerequisite: ENGL 102*. A survey of major literary texts from the Restoration until the Modern Period. Frequent compositions on literary topics.

207 Beginning Creative Writing (4)

Beginning creative writing workshop in which students are introduced to techniques of imaginative writing: short fiction, poetry, drama.

210 Conceptions of the Self in Philosophy and Literature (4) (also listed as PHIL 210)

Examination of various conceptions of the self as they arise in philosophical and literary texts; examination of methods and goals of the philosophical and literary arts. **GE C5**

225 Interpreting World Cinema (4)(also listed as BCST 225)

Critical survey of world cinema as art and cultural artifact. Provides critical methodology and practical tools for analyzing and interpreting international film movements, genres and themes. **GE C2**

228 English Grammar Review (4)

Prerequisite: ENGL 102*. Review of traditional grammar; practice in identifying sentence parts, phrases, clauses, and parts of speech, as well as grammatical categories such as tense, number, and agreement.

229 Writing Proficiency (4)

Prerequisite: ENGL 102*. Strategies for improving writing proficiency in descriptive, illustrative, explanatory, and persuasive essays. Graded A,B,C/NC.

**Students subject to catalogs prior to 1993-95 satisfy the prerequisite with ENGL 101 or 190.*

230 Language and Society (4) (also listed as ANTH 230)

An introduction to linguistics as a social science. Exploration of the relationship of language to a variety of social issues including race, class, and gender. **GE D**

240 Film, Novel, Theater (4) (also listed as BCST and TA 240)

Prerequisite: Completion of ENGL 101.

An exploration of film, theater, and fiction through the process of adaptation. Analysis of the roles of audience, modes of delivery, concepts of form and structure, and cultural impact. **GE C5**

245 Introduction to Folk Literature (4) (also listed as ANTH 245)

An introduction to the genres of folk literature; their composition, structure, style, performance, cultural contexts, and their contribution to written literature. **GE C1**

250 Understanding Literature (4)

Forms and techniques of fiction and/or drama, and poetry; analysis of representative works of various periods and cultures; critical compositions and reports. Not open to English majors. **GE C1**

258 Mythology in Literature (4)

Analysis and interpretation of dominant myths in representative works of world fiction, drama, and poetry; critical compositions. **GE C1**

260 Women and Literature (4)

Fiction, poetry, and drama by women authors; close analysis of representative works; critical compositions. **GE C1**

270 Contemporary American Literature (4)

An introduction to recent fiction, autobiography, poetry, and drama by American authors; close analysis of representative works; critical compositions. **GE C1**

276 Introduction to Play Writing (3) (also listed as TA 276)

Prerequisite: ENGL 200A or 200B or 200C or TA 152. Collaborative approach to writing for the stage; emphasis on writing theory and techniques; introduction to dramaturgy, directing, literary management, and staged reading.

280 Contemporary World Literature (4)

Recent fiction, poetry, and drama written by authors outside the U.S.; close analysis of representative works; critical compositions. **GE C1**

Upper Division Courses

Upper division standing is prerequisite to enrollment in 400-level courses. ENGL 102 or its equivalent is prerequisite to all upper division English courses. Prerequisite for all literature courses: ENGL 250, or 200A, 200B or 200C unless otherwise stated.

301 Introduction to Language (4)

Introduction to the structures and history of the English language; traditional and alternative grammars; theories of language as they relate to language acquisition and sociolinguistics.

306 Technical Writing (4)

Prerequisite: Passing WPE score. Fundamentals of technical writing; development and writing of mechanism descriptions, proposals, feasibility studies, progress reports, and long technical reports.

308 Expository Writing (4)

Prerequisite: Passing WPE score. Methods of and practice in writing analytical essays that present persuasive arguments; emphasis on coherent organization, clear style, rigorous argumentation.

318-319-320 British Literature (4, 4, 4)

Prerequisites: ENGL 200A and 200B or 200C, or 250. Study of representative works within the contexts of literary tradition and significant historical, social, and intellectual developments. Supervised practice in writing.

318: British Literature to 1640**319: British Literature 1640–1832****320: British Literature 1832–1920****327 Ethnicity and Emotions in U.S. Film (4) (also listed as CHS 327 and PAS 327)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. The critical analysis of the representations of ethnicity and emotions in U.S. film.

340 Writing the Critical Essay (4)

English 340 satisfies the upper division writing requirement for English majors.

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Intensive, supervised practice in advanced composition; emphasis on critical response to a literary work and its effective statement in essay form.

354 Selected Topics in Literature (4)

Representative works in literature of various thematic or stylistic types. Specific topics announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit.

358 Technology in Literature (4)

Prerequisites: ENGL 200A and 200B or 200C, or 250. The literary response to the impact of technology on society, nature, individual life, and art from the 18th century to the present. Supervised practice in writing.

360 Adjunct Writing (2 or 4)

Corequisite: Upper division course in student's major department may be required. Supervised practice in advanced composition, emphasis on styles germane to student's major field. May be taken in two 2-unit segments as required by student's major department.

377 Literary Explorations of Justice and Racism (4) (also listed as PAS 377)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of the literary depiction of racism and justice, with emphasis on the treatment of civil rights issues in fiction, drama, and poetry. **GE Theme H**

379 Gender and Sexuality in Popular Culture (4) (also listed as BCST 379)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Survey and critical analysis of narrative and visual representations of gender and sexuality in the modes of popular culture, such as television, film, advertising, popular fiction, and the tabloid press. **GE Theme C**

381 Legacy of Greek and Roman Literature (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Legacy of ancient literature through focus on three themes: the self and self consciousness, society, and nature. **GE Theme I**

382 Violence and Literature (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Thematic and critical examination of representations of violence in literature. Will consider violence across cultural, racial, sexual and generational boundaries. **GE Theme B**

383 Narratives of Maturity and Aging (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical examination of the representations of human maturity and aging in literary works from a range of periods, forms and genres. Examines the part that aging plays in human experience. **GE Theme F**

385 Sex and Gender in Language and Literature (4) (also listed as SPCH 385)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of concept of sex, gender as experienced in language and literature. Comparative language behavior of women and men as revealed in research on communication and in representative literary works, both classical and modern. **GE Theme C**

386 Literature and the Third World (4) (also listed as PAS 386)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critically survey cultural representations, themes, and techniques of Third World literature and their Western diaspora writers. **GE Theme A**

387 The American Landscape in Literature (4)

Prerequisites: ENGL 200A and 200B or 200C, or 250. The literary response to the American landscape from the time of the early explorers to the present.

388 Environment and Literature (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. The literary response to the natural environment. Focus on themes of transformation of natural environment, concepts of place and space, relations between human progress and environmental limits in literature. **GE Theme G**

389 Human Emotions in Literary Expression (4) (also listed as ML 389)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Emotions such as love, anger, laughter, fear, joy, sorrow, guilt, pain or oppression, as represented in prose and poetic forms of various cultures. **GE Theme E**

392 "Statement" and Literary Magazine Editing (1-4)

Prerequisite: Consent of faculty member advising the course. Techniques of editing and producing literary magazines. May be repeated to maximum of 6 units. Graded CR/NC.

400 Introduction to Linguistics (4) (also listed as ANTH 471)

Descriptive and historical study of language; problems of data collection and techniques of analysis, linguistic structure, language classification, language families of the world, language in its sociocultural setting.

401 English Language in America (4)

Introduction to linguistic theory; elementary structural analysis of phonology, morphology, and syntax; discussion of levels and functional varieties of usage.

402 History of the English Language (4)

Prerequisite: ENGL 401. External history; structural history; history of vocabulary; principles of historical linguistics.

403 Language and Culture (4) (also listed as ANTH 470)

Prerequisite: ANTH 250. Nature, origin, and evolution of language. Survey of approaches and studies illustrating variations in the relation of habitual thought and behavior to language.

405 Modern English Grammar (4)

Prerequisite: ENGL 401. Transformational generative analysis of contemporary morphology and syntax; its relationship to alternate grammars of English.

406 Writing Nonfiction (4)

Prerequisite: Passing WPE score. Methods of and practice in writing documentary, biographical, and other nonfiction prose; emphasis on style, detail, effective development.

407 Writing Fiction (4)

Prerequisite: Instructor consent. Instruction in the technique and art of writing fiction. May be repeated to maximum of 16 units.

408 Writing Poetry (4)

Prerequisite: Instructor consent. Instruction in the technique and art of writing poetry. May be repeated to maximum of 16 units.

409 Scientific Writing (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Fundamentals of scientific writing: developing and writing lab reports, abstracts, reviews of secondary literature, and primary research papers.

410 Writing in the Schools (4)

Prerequisites: One upper division ENGL linguistics course; satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Discussion of composing and theories of discourse; review of research in written expression; practice in applying and evaluating theories.

411 Practicum in Tutoring English (2)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Discussion of composition theory, linguistic theory, and connections between reading and writing. Practice in effective tutoring methods in various educational situations. Lecture 2 hours, lab 4 hours. Graded CR/NC.

416 Chaucer (4)

Troilus and Criseyde, Canterbury Tales, and selected minor poems as works of art and as reflections of culture and literary conventions of the time.

417 Shakespeare I (4)

Shakespearean drama. Intensive study of five or six plays chosen from the following: Julius Caesar, Romeo and Juliet, Macbeth, Twelfth Night, The Merchant of Venice, Henry IV—Part One, Richard III, and Hamlet; elements of Shakespearean drama.

418 Shakespeare II (4)

Intensive study of four or five plays (and poems) not included in 417; range and diversity of Shakespeare's art in his time and ours.

419 Milton (4)

Selected works of John Milton.

424 Greek and Roman Drama in Translation (4)

Plays by Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, and Terence; characterization, style, focus, and problems of translation.

425 Epic and Legend (4)

Stylistic, thematic, generic, and cultural analysis of representative epics and legends from world literature.

426 African Literature (4) (also listed as PAS 426)

Prerequisite: ENGL 250. African literature and its cultural background; intensive study of writers in English and others in translation; critical compositions and reports.

427 Modern Drama: Continental, English, and American (4)

Representative plays by such dramatists as Ibsen, Strindberg, Chekhov, Shaw, Pirandello, O'Casey, O'Neill; major theatrical movements; naturalism, symbolism, and expressionism.

428 Contemporary Drama: Continental, English, and American (4)

Prerequisite: ENGL 427 recommended. Representative plays by such dramatists as Brecht, Lorca, Beckett, Sartre, Genet, Pinter, Miller, Williams. Modern poetic drama; epic, existential, and absurdist theatre; theatre of cruelty.

430 Children's Literature (4)

Prerequisite: ENGL 406 or passing WPE score. Analysis and evaluation of literature for children; role of literature in children's education.

432 Literature for Adolescents (4)

Prerequisite: ENGL 406 or passing WPE score. Analysis and evaluation of literature appropriate for adolescents; examination of adolescent concerns in literary works.

441 Major Critics (4)

Major critical approaches to literature; systems of Aristotle, Dryden or Johnson, Wordsworth, Coleridge; a modern critic or a contemporary critical problem.

442 Contemporary Critical Theory (4)

A survey of literary theories since New Criticism such as Structuralism, Post-Structuralism, Feminism, Psychoanalytical criticism, Marxism, Reader-Response, New Historicism, Post-colonialism, Post-modernism, Deconstruction.

446 The British Novel: Defoe to Hardy (4)

Representative works by major British novelists, e.g., Defoe, Fielding, Sterne, Dickens, and Hardy.

447 The British Novel: Conrad to Present (4)

Representative works by modern British novelists, e.g., Conrad, Joyce, Lawrence, Huxley, and Cary.

450 Analyzing Children's Film (4)

Children's films as art form and communication medium; cinematic explication; visual and verbal communication techniques; children's films adapted from folklore, fable, and children's books.

451 Film and Literature (4)

Critical study of films adapted from literary sources along with analysis of original literature for purpose of contrasting the media. May be repeated to a maximum of 8 units as subject matter changes.

453 Modern Women Writers (4)

Representative works by such women writers of the modern world as Kate Chopin, Gertrude Stein, Willa Cather, Isak Dinesen, Colette, Virginia Woolf, Doris Lessing, and Gabriela Mistral.

454 Selected Topics in Literature (4)

Advanced study of representative works in literature of various thematic or stylistic types. Specific topics announced in Schedule of Classes. Open to English majors. May be repeated to a maximum of 8 units for credit.

460 Medieval English Literature (4)

Lyric poetry, epic and romantic narratives, and dramatic works, from Anglo-Saxon beginnings through fifteenth century, exclusive of Chaucer. Readings in Middle English and in translation.

461 Dramatic Literature of the English Renaissance (4)

Representative plays by Elizabethan and Jacobean dramatists exclusive of Shakespeare, e.g., Marlowe, Dekker, Webster, Jonson, Beaumont, and Fletcher.

463 The English Renaissance (4)

Nondramatic literature from Wyatt to Bacon; British and continental cultural, literary, and philosophical backgrounds.

464 Seventeenth Century Literature (4)

Prose and poetry from Donne to Dryden, excluding Milton; literary, social and political backgrounds.

465 The Augustan Age (4)

Literature from Swift and Pope through Johnson; social and philosophical backgrounds.

467 The Romantic Age (4)

Prose and poetry from Blake to Keats; cultural and philosophical backgrounds.

468 The Victorian Age (4)

Prose and poetry of major Victorian writers; social and philosophical backgrounds.

470 American Writers (4)

Critical study of the literary achievements of American women, such as Stowe, Dickinson, Chopin, Wharton, Cather, Hurston, Porter, Morrison, and Kingston.

471 American Literature: Beginnings to 1860 (4)

Puritanism to transcendentalism. Emphasis on such writers as Edwards, Emerson, Hawthorne, Melville, Poe, and Thoreau.

472 American Literature: 1860–1914 (4)

Prerequisite: ENGL 471. The movement toward realism and naturalism. Emphasis on such writers as Whitman, Dickinson, Twain, Howells, James, and Crane.

473 American Literature: 1914 to Present (4)

Representative writers of American modernism and postmodernism.

475ABC The American Novel Since 1920 (4, 4, 4)

Development of American novel from 19th century to present. Representative works by major American novelists. (Courses need not be taken in sequence.) Supervised practice in writing.

475A:19th Century

(e.g., Cooper, Hawthorne, Melville, Twain, James, Crane)

475B:1900–1945

(e.g., Dreiser, Wharton, Cather, Anderson, Hemingway, Fitzgerald, Faulkner, Steinbeck)

475C: 1945–Present

(e.g., Wright, Bellow, Ellison, O'Connor, Updike, Pynchon)

476 Ethnic Literature in the U.S. (4)

Fiction, nonfiction, poetry, and plays of U.S. modern ethnic writers. May include, among others, Asian-American, Black American, Euro-American, Hispanic-American, and Native American works.

477 Black American Literature (4)

Representative works of 19th and 20th century black American writers such as Forten, Chesnut, Dunbar, Hughes, Hurston, Wright, Baldwin, Walker, Brooks.

478 Modern Poetry (4)

Backgrounds of modern poetry; representative works by major British and American poets to 1930s, such as Yeats, Eliot, Pound, Frost, Williams, Stevens, and Lawrence.

479 Contemporary Poetry (4)

Representative works by British and American poets from 1930s to present, such as Auden, Roethke, Thomas, Lowell, Plath, Hughes, Berryman, Creeley, Baraka, Merwin.

480 Literature and the Fine Arts, BC (4)

Ancient literature (Oriental, Greek, and Roman) in relation to other arts. May be taken independently of ENGL 481 or in any sequence with it.

481 Literature and the Fine Arts, AD (4)

Western literature (medieval romance, Dante, Cervantes, Voltaire, Goethe, Balzac) in relation to other arts. May be taken independently of ENGL 480 or in any sequence with it.

482 The Bible as Literature: Old and New Testaments (4)

Types and styles of Biblical literature; geographical, historical, cultural, and archaeological backgrounds of both Testaments.

483 Folklore and Literature (4)

Forms of folklore and their relationship to literature; identification and analysis of the heritage of folklore in literature.

484 Major Continental Fiction: Cervantes to Balzac (4)

Representative works by European authors, e.g., Cervantes, Rousseau, Goethe, and Balzac.

485 Major Continental Fiction: Stendhal to Tolstoy (4)

Representative works by European authors, e.g., Stendhal, Flaubert, Chekhov, Dostoyevsky, and Tolstoy.

486 Twentieth Century Continental Fiction (4)

Representative works by European authors, e.g., Proust, Mann, Kafka, Sartre, and Camus.

488 Canadian Fiction (4)

Canadian fiction in English by major 20th century authors including Atwood, Laurence, Davies, Munro, Kroetsch, Richler, and others.

490 Special Studies in British Writers (4)

Intensive study of one British writer or of a small group of writers whose works represent a significant movement or aspect of British literature. May be repeated to a maximum of 8 units for credit as content changes.

491 Special Studies in American Writers (4)

Intensive study of one or a small group of American writers whose works represent a significant movement or aspect of American literature. May be repeated to a maximum of 8 units for credit as content changes.

494 Literary Study and the Teaching Profession: A Capstone Course in the English Major for Prospective Teachers (4)

Prerequisite: English major with senior standing. Application of literary study to the classroom situation.

495 Seminar: British Literature (4)

Prerequisite: English major with senior standing. Variable content course in which each seminar studies in depth a selected topic in British literature. May be repeated to a maximum of 8 units for credit as content changes.

496 Seminar: American Literature (4)

Prerequisite: English major with senior standing. Variable content course in which each seminar studies in depth a selected topic in American literature. May be repeated to a maximum of 8 units for credit as content changes.

497 Special Studies in World Writers in Translation (4)

Prerequisite: English major with senior standing. Variable content course; each seminar studies in depth a selected topic in world literature. May be repeated to a maximum of 8 units for credit as content changes.

498 Seminar: Language (4)

Prerequisite: English major with senior standing. Variable content course in which each seminar will study in depth a selected topic in language. May be repeated to a maximum of 8 units for credit as content changes.

499 Undergraduate Directed Study (4)

Prerequisites: Consent of an instructor to act as sponsor. Project selected in conference with sponsor. Maximum of 4 units accepted toward English major or minor. May be repeated to a maximum of 20 units for credit as content changes. Graded CR/NC

Graduate Level Courses

All 400-level AMER and ENGL courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: AMER 499

Classified graduate standing is required for admission to all 500 level courses

Courses in American Studies (AMER)

501 Seminar: Selected Problems in American Civilization (4)

Prerequisite: One course from AMER 401–404 sequence. Selected problems of both historical and contemporary significance whose ramifications in American life merit interdisciplinary considerations. May be repeated to maximum of 12 units.

598 Graduate Directed Study (1–4)

Prerequisites: Instructor consent to act as sponsor, departmental approval. Independent study of advanced topics; regular conferences with sponsor. May be repeated for credit; maximum of 6 units may be applied to master's program.

599 Thesis (1–4)

Prerequisites: Advancement to candidacy, minimum 3.5 grade point average in courses on the master's degree program at the time of advancement to candidacy, departmental approval of thesis proposal. Independent research resulting in a thesis; oral examination about completed thesis may be required. Must be repeated to maximum of 4 units. Graded CR/NC.

Courses in English (ENGL)

500 Methodology of Graduate Research in English (4)

Prerequisite or corequisite: ENGL 441. Introduction to bibliography, research techniques, professional essay style, and basic critical approaches.

504 Seminar: Theories of Composition and Rhetoric (4)

Prerequisite or corequisite: ENGL 401. Theory and research in composition and rhetoric.

505 Seminar: Language and Literacy (4)

Prerequisite: ENGL 401. Theories of language structure as they apply to contemporary usage.

506 Seminar: The Writing Process (4)

Writing and editing instructional, administrative, and professional materials. Emphasis on developing English skills needed to teach writing at secondary school or community college level or to perform as staff writer or editor.

507 Seminar: Creative Writing (4)

Prerequisites: ENGL 407 or 408; instructor consent. Creative writing workshop with advanced instruction in composing in specified genre; in-class critiques by students and instructor. May be repeated for credit.

510 Seminar: Historical Criticism (4)

Prerequisite or corequisite: ENGL 500. Variable topic seminar focusing on historical criticism of selected works from periods in British or American literature. May be repeated as subject matter changes.

530 Seminar: Children's Literature and Folk Literature (4)

Prerequisite: ENGL 500. Selected topics in children's literature and folk literature, as announced in *Schedule of Classes*. May be repeated as subject matter changes.

541 Seminar: Contemporary Critical Approaches (4)

Prerequisite or corequisite: ENGL 500. Variable topic seminar focusing on selected contemporary critical approaches to study of English language and literature. May be repeated as subject matter changes.

550 Seminar: Topics in Composition, Rhetoric, and Language (4)

Prerequisite: ENGL 504 or 505. Variable topics seminar focusing on selected issues in composition, rhetoric, and language, as announced in *Schedule of Classes*. May be repeated as subject matter changes.

560 Seminar: British Literature (4)

Prerequisite: ENGL 500. Study of one or more major writers or of selected works in British literature, as announced in *Schedule of Classes*. May be repeated as subject matter changes.

570 Seminar: American Literature (4)

Prerequisite: ENGL 500. Study of one or more major writers or of selected significant works in American literature, as announced in *Schedule of Classes*. May be repeated as subject matter changes.

580 Seminar: World Literature (4)

Prerequisite: ENGL 500. Study of one or more major writers or of selected significant works in world literature, as announced in *Schedule of Classes*. May be repeated as subject matter changes.

590 Seminar: Special Studies in Language in Literature (4)

Prerequisite: ENGL 500. Study of selected genres, intellectual movements, or literary ideas in representative works, as announced in *Schedule of Classes*. May be repeated as subject matter changes.

598 Graduate Directed Study (1-4)

Prerequisites: ENGL 500 (may be taken concurrently), instructor consent to act as sponsor, approval of principal graduate adviser. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 5 units with maximum of 4 units allowed in any quarter. Graded CR/NC.

599 Thesis (1-5)

Prerequisites: Advancement to candidacy, formal approval by department. Independent study resulting in a critical essay. Oral examination about master's essay required. Must be repeated to total of 5 units. Graded CR/NC.

Program in

Entrepreneurship

School of Business and Economics

ADVISEMENT CENTER OFFICE

Salazar Hall C256B

Phone: (323) 343-2810

E-mail: ltrevil@calstatela.edu

Fax: (323) 343-5480

The Entrepreneurship Program of the School of Business and Economics focuses on the knowledge and skills needed to imagine, start, and grow the businesses that are the well spring of innovation, employment, and, indeed, most millionaires.

The Faculty

Faculty from departments across the School of Business and Economics participate in this program.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Option in Entrepreneurship (100 units)

Advisement: School Advisement Center

This option prepares students to work for a small business, start their own business, purchase existing companies, or manage ongoing small-to-medium enterprises.

The BSBA with the Option in Entrepreneurship requires completion of the BSBA core (72 units) and the Option Requirement (28 units).

Core requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)
MGMT 301	Business Communications (4)

Select one from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for Entrepreneurship (28 units)

Required courses (20 units)

ACCT 426	Accounting and Reporting Requirements of Small Business (4)
FIN 494	Financial Management for Small Business (4)
MGMT 468	Small Business Management (4)
MKT 325	High Performance Professional Skills (4)
MKT 443	Marketing in a New Business (4)

Electives (8 units)

With adviser approval, select two upper division electives in business and economics.

Certificate Program in Entrepreneurship

The Department of Marketing offers a credit certificate in Entrepreneurship, designed to prepare students and business people for careers in starting, managing, or working in small businesses. The program includes instruction about how to take a product or service from the idea stage through the introduction and growth stages, and how to successfully manage the business. A focus may be taken in retailing, marketing of services and products, consulting, accounting, finance, or entrepreneurship. A total of 24 units is required. Refer to the Undergraduate Study chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required courses (16 units)

ACCT 426	Accounting and Reporting Requirements of Small Business (4)
FIN 494	Financial Management for Small Business (4)
MGMT 468	Small Business Management (4)
MKT 443	Marketing in a New Business (4)

Electives (8 units)

Select two upper division School of Business and Economics electives with adviser approval.

Department of**Finance and Law**

School of Business and Economics

DEPARTMENT OFFICE

Simpson Tower F717

Phone: (323) 343-2870

E-mail: jloo@calstatela.edu

Website: www.calstatela.edu/academic/aa/finance.htm

The Department of Finance and Law offers options in finance, real estate, and business arts-prelegal for the Bachelor of Science Degree in Business Administration. These options enable students to prepare for finance, real estate, and legal careers.

The Faculty

Professors: Maria Kathleen Boss, Jack S. K. Chang, George N. Engler, G. Timothy Haight, Hsing Fang, Taewon Kim, Jean Loo (Chair), Paul E. Schnitzel, Gary Steele Watson.

Associate Professor: John M. Blackburn.

Assistant Professors: Lifan Wu, Jong-Hwan Yi

Emeriti: Philip B. Bergfield, Edward A. Nelson, Gordon B. Severance.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Options in

- **Business Arts–Prelegal (100 units)**
- **Finance (100 units)**
- **Real Estate (100 units)**

Advisement: Department of Finance and Law

The BSBA degree with any of these options requires completion of the BSBA Core (72 units) and one set of Option Requirements (28 units).

Core Requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)

Upper Division Required Courses (cont'd)

Select one from the following:

ECON 303	Money, Banking and the Economy (4)
ECON 310	Managerial, Economics (4)

Option Requirements for Business Arts–Prelegal (28 units)

This option enables students to meet the needs of firms that desire business graduates with less specialization and may be used by prelaw students or those who wish a broad preparation at the undergraduate level. It combines the basic business sequence with liberal arts.

Required Skills Course (4 units)

ACCT 325 or MGMT 489 or MKT 325 or other approved skills course.

Other Required Courses (8 units)

ECON 471	American Economic History (4)
HIST 479	Constitutional History of United States (4)

Electives (16 units)

Select 16 units with adviser approval.

Option Requirements for Finance (28 units)

This option prepares students for positions in corporate financial management or investments, banks, and other financial institutions.

Required Skills Course (4 units)

ACCT 325 or MGMT 489 or MKT 325 or other approved skills course

Other Required Courses (20 units)

*FIN 305	Legal and Regulatory Environment of Business II (4)
FIN 332	Investments (4)
FIN 403	Intermediate Business Finance (4)
FIN 431	Multinational Financial Management (4)
FIN 434	Cases in Financial Management (4)

*FIN 480 required instead of 305 for students with credit for 8 or more quarter units of lower division business law.

Elective (4 units)

Select one course with adviser approval.

Option Requirements for Real Estate (28 units)

This option prepares students for careers in real estate, including positions with brokerage and appraisal firms, lending institutions, and governmental agencies.

Required Skills Course (4 units)

ACCT 325 or MGMT 489 or MKT 325 or other approved skills course

Required Courses (20 units)

FIN 338	Real Estate Principles (4)
FIN 381	Real Estate Law (4)
FIN 438	Real Estate Valuation (4)
FIN 439	Real Estate Finance (4)
FIN 493	Real Estate Investment (4)

Elective (4 units)

Select one course with adviser approval.

Certificate in Finance

The Department of Finance and Law offers a credit certificate in Finance designed to prepare individuals who hold or are pursuing a bachelor's degree in a field other than finance for entry into careers in corporate finance, money management, investment banking, and commercial banking.

Requirements for the Certificate (28 units)**Required courses (24 units)**

FIN 303	Business Finance (4)
FIN 331	Financial Institutions and Markets (4)
FIN 332	Investments (4)
FIN 403	Intermediate Business Finance (4)
FIN 431	Multinational Financial Management (4)
FIN 434	Cases in Financial Management (4)

Electives

Select 4 units from the following

FIN 305	Legal and Regulatory Environment of Business II (4)
FIN 437	Securities Analysis (4)
FIN 440	Options and Futures (4)

Graduate and Postbaccalaureate Programs**Master of Science Degree in Business Administration with the Option in Finance (45 units)**

This is a specialized degree program permitting concentration and research in one of several options.

Admission to the Program

The application must include three letters of recommendation from either employers or academicians.

Students are required to complete 36 units of preparatory business and related courses for admission to classified graduate standing for the M.S. degree in Accountancy, the M.S. degree in Business Administration, and the M.B.A. degree.

The 36-unit requirement can be met either by taking the courses listed below or by submitting transcripts demonstrating that the equivalent subject material has been successfully completed either at the undergraduate or graduate level. In addition, competency must be demonstrated in calculus, statistics, and the use of computers. The competency requirement can be met by successfully passing competency exams in each area or by submitting transcripts showing that the subject matter has been successfully completed at either the undergraduate or graduate level.

ACCT 260R, 360R
ECON 311R
FIN 261R, 363R
MGMT 361R, 366R, 367R or 368R
MKT 364R

In addition to completing the 36 quarter units of acceptable basic business courses listed above, applicants must have an approved graduate degree program on file in the School Advisement Center.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 41 units in 500-level courses.

Required Core (24–27 units)

ACCT 503	Quantitative Approach to Managerial Decisions (4)
CIS 504	Management Information Systems (4)
ECON 502	Economic Analysis and Business Operations (4)
MGMT 501	Administrative Behavior and Systems Management (4)
MGMT 594	Policy Integration and Strategy (3)
MGMT 598	Graduate Directed Study (1)

Additional 598 courses are to be taken for 4-7 units selected with advisor approval.

Thesis (5 units)

BUS 599AB	Thesis (2, 3)
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Required Courses for the Option (9 units)

FIN 530	Seminar: Business Finance (3)
FIN 531	Seminar: Financial Institutions (3)
FIN 532	Seminar: Estate Planning (3)

Electives (4–7 units)

List of Courses (FIN) - Undergraduate Level

Lower Division Courses

203 Law for the Citizen (4)

Aspects of law affecting personal life; legal system, crimes, torts, contracts, vehicle ownership, home ownership, marriage, divorce, consumer law, employment, checks and promissory notes, and business organizations. Credit allowed for only one of FIN 203 and 205.

205 Legal and Regulatory Environment of Business I (4)

Prerequisite: Sophomore standing. Introduction to the legal and regulatory environment of business, emphasizing the American legal system, contracts, sales, and related legal issues of international business. Instruction in computer-assisted legal research. Credit allowed for only one of FIN 203 and 205.

Upper Division Courses

Upper division standing is prerequisite to enrollment in 300- and 400-level FIN courses.

303 Business Finance (4)

Prerequisite: ACCT 200B. Principles of planning, procuring, and controlling short and long-term financial resources of businesses; cash and capital budgeting; securities markets, costs of capital, and equity valuation.

305 Legal and Regulatory Environment of Business II (4)

Prerequisite: FIN 205. Legal and regulatory issues facing managers and accountants. Examination of legal and regulatory issues in employment, business organizations, securities regulation, secured transactions, bankruptcy, and commercial paper.

330 Credits and Collections (4)

Business and social functions of credit, classifications of credit and credit instruments, investigation and analysis of credit risks, management and control of credit collection processes.

331 Financial Institutions and Markets (4)

Prerequisites: ECON 202, FIN 303. Bank risk management using an asset/liability approach; hedging tools including interest rate swaps and other derivatives; deregulation and its impact on finance industry.

332 Investments (4)

Prerequisite: FIN 303. Analysis of risk and return, valuation of stocks and bonds, capital asset pricing model, stock and bond portfolio management, efficient capital markets, evaluation of investment performance, and introduction to options.

335 Personal Portfolio and Risk Management (4)

Understanding and planning of personal finance; managing basic personal assets including financial assets, real assets, insurance, and retirement; extensive analysis of risk management of assets, liabilities and equity in a personal portfolio context.

338 Real Estate Principles (4)

Economics of land ownership and use; fundamentals of ownership, financing, appraisal, management, and transfer of residential and other real property.

339 Real Estate Practice (4)

Prerequisite: FIN 338. Analysis of real estate contracts, agency and brokerage relationships, physical components of real estate, private ownership interests, documents of transfer, escrows, title insurance, recording, and professional licensing.

381 Real Estate Law (4)

Prerequisites: FIN 338, four units of business law. Legal aspects of real property ownership and management; emphasis on California law affecting escrows, contracts, licensing, brokerage, co-ownership, deeds, conveyances, trust deeds, mortgages, titles, encumbrances, estates in land, and leases.

403 Intermediate Business Finance (4)

Prerequisite: FIN 303. Intermediate business financial management emphasizing intensive treatment of valuation, capital asset management, financial structure, sources of funds, and working capital management; combines theory and applications.

425 Financial Software and Data Banks (4)

Prerequisites: FIN 303, CIS 100. Uses of financial data banks such as COMPUSTAT and Dow Jones News Retrieval; financial applications of computer software packages such as Lotus 1-2-3 and Javelin.

429 Estate Planning (4)

Prerequisites: FIN 205, 303. Planning, creating, conserving, and transferring individual wealth; case studies relating to investments, insurance, wills, probate, trusts, estate and gift tax, avoiding probate, and minimizing taxes.

430 Commercial Bank Administration (4)

Prerequisite: FIN 303. Case studies of organization, operation, and policies of commercial banks; sources and uses of bank funds; cash and reserve positions, securities and loan portfolios; utilizes a simulation approach to bank management.

431 Multinational Financial Management (4)

Prerequisite: FIN 303. Application of principles of managerial finance to international and multinational business; analysis of risks and problems unique to businesses involved in transnational operations; international sources and uses of funds.

432 Real Estate Management (4)

Prerequisite: FIN 338. Management of real property as part of the real estate industry; nature, functions, scope of management principles, services, property care, tenant relations, and records.

434 Cases in Financial Management (4)

Prerequisites: ACCT 300, FIN 403, MGMT 301. Identifying and solving financial problems through the use of cases. Applications of financial theory and financial techniques to business problems, using written reports and classroom discussion.

435 Working Capital Management (4)

Prerequisites: ACCT 300, ECON 309, FIN 303. Decision-oriented, analytical approaches to problems and practices related to and arising in the course of financing and managing the acquisition, maintenance, and disposition of working capital assets.

436 Business Risk Management (4)

Negligence liabilities and related business risk problems; workers' compensation, surety and fidelity, crime and peril, and their usefulness as tools of the business risk manager.

437 Securities Analysis (4)

Prerequisite: FIN 332. Investment practice in analysis of financial statements; selection and valuation of stocks and fixed-income securities, stockholder-management relations, applied securities analysis.

438 Real Estate Valuation (4)

Prerequisite: FIN 338. Valuation of real property; economic analysis of trends and factors influencing real estate ownership, development, and use; current appraisal theory.

439 Real Estate Finance (4)

Prerequisite: FIN 338. Position of real estate finance in the economy; techniques and procedures used to finance real property, including sources of funds, lending policies, and instruments used in California today.

440 Futures and Options (4)

Prerequisite: FIN 332. Market structures, trading techniques, pricing models, hedging strategies, and investment implications for various futures, option contracts, and derivative assets.

454 Special Topics in Finance (1-4)

Prerequisite: Varies with topic; see Schedule of Classes for specific requirement. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

480 International Business Law (4)

Prerequisite: Four units of business law. Legal issues that arise in international trade, licensing, and investment; national and international limitations that influence the movement of goods, labor, and technology.

492 Real Estate and Governmental Policy (4)

Prerequisite: FIN 338. Functioning of real estate industry within constraints and incentives of governmental policies; development and environmental regulations; income and property taxation; rent controls and housing for disadvantaged.

493 Real Estate Investment (4)

Prerequisite: FIN 338. Principles of investing in real estate; analytic techniques and economic strategies for maximizing after-tax returns from land, residential properties, shopping centers, and other real estate.

494 Financial Management for Small Business (4)

Prerequisites: ACCT 300, FIN 303. Principles and practices of financial management for small business; analytic techniques and financial strategies for financing and managing the resources of small businesses efficiently and profitably.

Graduate Level Courses (FIN)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser

Classified graduate standing and approval by the School of Business and Economics Advisement Center are required for admission to all 500-level courses

500 Business Finance and Law (4)

Legal and financial theories and applications pertaining to a business organization: forms of business organizations, business organizations law, capital markets, analysis of financial statements, securities law, security valuation, bankruptcy, and reorganization.

530 Seminar: Business Finance (3)

Prerequisites: ACCT 503, 520, ECON 502. Corequisite: FIN 598. Analysis of acquisition and administration of assets by the business corporation; analysis of interrelationships between business financial decisions and national economy; and development of theories of financial management.

531 Seminar: Financial Institutions (3)

Prerequisite: FIN 530. Corequisite: FIN 598. Role of financial institutions in U.S.; financial management of various types of financial institutions against a background of national income, national policies, and flow of funds.

532 Seminar: Estate Planning (3)

Corequisite: FIN 598. Advanced planning for individual financial management; consideration given to legal, financial, and taxation problems, including insurance, investments, trusts, real estate, wills, and related laws.

533 Seminar: International Finance (3)

Prerequisite: FIN 530. Corequisite: FIN 598. Analysis of institutions, instruments, and procedures used in financing exports and imports, international investments, and multinational business operations.

534 Seminar: Portfolio Management (3)

Prerequisite: FIN 530. Corequisite: FIN 598. Portfolio theory, capital market equilibrium (capital asset pricing model and arbitrage pricing theory), asset allocation, capital allocation, fixed-income securities, options and futures, passive and active portfolio management.

535 Seminar: Speculative Securities and Markets (3)

Prerequisite: FIN 534. Corequisite: FIN 598. Economics and pricing of options and futures contracts and their applications to portfolio management; how proliferation of speculative markets affects efficiency and stability of financial system.

598 Graduate Directed Study (1)

Investigation of an approved project leading to written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Department of

Geography and Urban Analysis

School of Natural and Social Sciences

DEPARTMENT OFFICE

King Hall C4067

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Website: www.calstatela.edu/academic/geog

The Department of Geography and Urban Analysis offers an undergraduate program leading to the Bachelor of Arts degree in Geography, with a General option, an Urban Analysis option, and a Multiple Subject Teacher Preparation option, as well as a minor and two certificate programs for students majoring in other fields. The department also offers a graduate program leading to the Masters of Arts degree in Geography, described in the *Graduate Programs* Section.

The department cooperates in the Latin American Studies, Liberal Studies, and Social Science interdisciplinary programs. A new Social Science Bachelor of Arts degree, with a Geography Emphasis, is available for those seeking a Single Subject teaching credential, and is described in the Social Science section. The department's regional courses focus on California, Asia, the U.S., Latin America, and the developing world. Systematic courses provide theory and skills useful in applied business, planning, and government. The department offers a variety of computer-related courses stressing computer cartography, GIS (Geographic Information Systems), remote sensing and spatial statistics.

The Faculty

Professors: Sin Fong Han, John A. Kirchner, Ali Modarres, Killian P. H. Ying (*Chair*).

Associate Professor: Stephen E. G. LaDochy.

Assistant Professors: Linda S. O'Hirok, Hong-lie Qiu, Cynthia L. Sorrensen

Emeriti: Harry C. Coffin, William S. Ting, Vincent Mazzucchelli, Clement Padick, John D. Rees

Undergraduate Programs

Bachelor of Arts Degree in Geography

The Bachelor of Arts degree in Geography is designed to provide students with an understanding of the world's physical and cultural environments. The program provides a foundation in the theory and practice of contemporary geography, with emphasis on a variety of applied and technical skills that will enhance a student's career opportunities.

Requirements for the Major (75-95 units)

The major in Geography requires 75-95 units depending on which of the three options described below is selected.

The General Option requires a total of 80 units of which 19 are lower division and 53 are upper division. The Urban Analysis option requires 95 units of which 26 are lower division and 69 are upper division. Students seeking to combine the study of Geography with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below. This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

General Option (80 units)

Lower Division Required Courses (19 units)

GEOG 150 Human Geography (4)
 GEOG 160 Physical Geography (4)
 GEOG 210 Map Reading and Interpretation (4)
 GEOG 268 Microcomputer Applications in Geography (4)

Lower Division Required Courses (cont'd)

ECON 209 Applied Business and Economic Statistics (3) **or**
 SOC 210A Elementary Statistics (3)

Upper Division Required Courses (53 units)

Required Core (25 units)

GEOG 405 Cartography (4)
 GEOG 432 Metropolitan Los Angeles (4)
 GEOG 453 Locational Analysis (4)
 GEOG 460 Field Geography (5)
 GEOG 465 Air Photo Interpretation (4)
 GEOG 495 Senior Thesis (4)

Regional Geography (8 units)

Select *two* from following:
 GEOG 370, 421, 423, 424, 425, 427, 428, 430, 431

Systematic Human Geography (12 units):

Select *three* from following:
 GEOG 341, 442, 467, 475, 476, 481

Systematic Physical Geography (8 units):

Select *two* from following:
 GEOG 402, 410, 415

Electives in Geography (8 units)

Select additional courses from above groups or from following:
 GEOG 333, 358, 446, 466, 468, 469, 471, 477, 496, 497, 499
 UNIV 398

Urban Analysis Option (95 units)**Lower Division Required Courses (26 units)**

GEOG 150	Human Geography (4)
GEOG 160	Physical Geography (4)
GEOG 210	Map Reading and Interpretation (4)
GEOG 268	Microcomputer Applications in Geography (4)
SOC 210AB	Elementary Statistics (3, 3)
URBA 180	The Urban World (4)

Upper Division Required Courses (69 units)**Technical Core (21 units)**

GEOG 405	Cartography (4)
GEOG 453	Locational Analysis (4)
GEOG 460	Field Geography (5)
GEOG 465	Air Photo Interpretation (4)
GEOG 495	Senior Thesis (4)

Applied Core (24 units)

GEOG 432	Metropolitan Los Angeles (4)
GEOG 476	Urban Areas (4)
GEOG 477	Urban Issues (4)
GEOG 496	Special Topics (1-4) or
URBA 401	Senior Project (4)
URBA 454	Selected Topics in Urban Analysis (1-6)
UNIV (GEOG) 398	Cooperative Education (1-4)

Interdisciplinary Courses (16 units)

Select courses in at least three disciplines:

ACCT 433
 ART 485
 BIOL 361N
 CIS 301
 ECON 440
 ENGR 352
 FIN 338, 381
 HIST 483
 POLS 403, 404, 460, 461, 477
 SOC 430
 SPCH 489

Geography/Urban Analysis Electives (8 units)

Select 8 units from the following:

GEOG 333, 341, 358, 415, 421, 442, 446, 466, 468, 469, 475, 481, 496, 499
 UNIV (GEOG) 398
 URBA 454

Multiple Subject Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106-111 units)

Refer to the **Undergraduate Studies: General Information** chapter of this catalog for the list of courses in this common core.

Major Courses (20 units)

GEOG 160	Physical Geography (4)
GEOG 210	Map Reading and Interpretation (4)
GEOG 432	Metropolitan Los Angeles (4)
GEOG 495	Senior Thesis (4)

Select one from the following:

GEOG 341	World Resources and Environmental Issues (4)
GEOG 442	Population (4)
GEOG 476	Urban Areas (4)
GEOG 481	Political Geography (4)

Social Science (Geography) Depth Area (20 units)

GEOG 370	World Regions (4)
GEOG 415	Perspectives on Environment (4)
GEOG 421	United States (4)
GEOG 431	California (4)
GEOG 446	U.S. Ethnic Communities (4)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in Geography

A minor in Geography is available for students majoring in other fields. A total of 28 units in geography is required, selected in consultation with an adviser in geography and distributed as follows:

Requirements for the Minor (28 units)**Required Courses (8 units)**

GEOG 150	Human Geography (4)
GEOG 160	Physical Geography (4)

Electives (20 units)

Select a minimum of 20 units in geography with consent of adviser. At least 14 units must be upper division.

Certificate Program in Cartography, Geographic Information Systems and Remote Sensing

The Department of Geography and Urban Analysis offers this credit certificate program which provides a practical approach to the design, layout, and graphics needed in cartographic production. A total of 32 units in the following courses is required for the certificate. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

The prerequisite for Lower Division Geography courses is GEOG 150 or 160. Math 103 is a prerequisite for CE 202.

Lower Division (12 units)

CE 202	Plane Surveying (4)
GEOG 210	Map Reading and Interpretation (4)
GEOG 268	Microcomputers Applications in Geography (4)

Upper Division (20 units)

Select any 5 courses from the following:

GEOG 405	Cartography (4)
GEOG 465	Air Photo Interpretation (4)
GEOG 466	Remote Sensing of Environment (4)
GEOG 468	Computer Cartography (4)
GEOG 469	Geographic Information Systems Applications (4)
GEOG 471	Advanced Cartography (4)

Certificate Program in Urban Land Use and Property Analysis

The Department of Geography and Urban Analysis, in cooperation with the Department of Finance and Law, offers this credit certificate program which is designed for students and professionals seeking employment with public service or private business in urban communities. The program provides technical and analytical training for evaluating current problems confronting the urban community. A total of 25–28 units in the following courses is required for the certificate. Refer to the *Undergraduate Study* chapter of this catalog for general regulations governing all certificate programs.

Prerequisite Course (4 units)

FIN 338 Real Estate Principles (4)

Requirements for the Certificate (25–28 units)**Required Courses (25–28 units)**

GEOG 453	Locational Analysis (4)
GEOG 476	Urban Areas (4)
GEOG 499	Undergraduate Directed Study (1–4)
FIN 432	Real Estate Management (4)

Required Courses (cont'd)

FIN 438	Real Estate Valuation (4)
FIN 439	Real Estate Finance (4)
FIN 493	Real Estate Investment (4)

The Credential Program

The Bachelor of Arts degree in Social Science with a Geography emphasis is now available for those seeking the Single Subject teaching credential in Social Sciences. Those who already hold a Single Subject Credential in the state of California may complete the Supplementary Authorization Program described below.

Supplementary Authorization for Single Subject Teaching Credential (33 units)

Holders of a Single Subject teaching credential issued by the state of California may supplement that credential with an authorization in Geography for teaching geography at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with a grade of C or higher in each course. For other requirements governing issuance of this authorization, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (33 units):

GEOG 150	Human Geography (4)
GEOG 160	Physical Geography (4)
GEOG 210	Map Reading and Interpretation (4)
GEOG 410	Weather and Climate or
GEOG 415	Perspectives on Environment (4)
GEOG 421	United States (4)
GEOG 431	California (4)
GEOG 341	World Resources and Environmental Issues (4) or
GEOG 481	Political Geography (4)
GEOG 460	Field Geography (5)

Graduate and Postbaccalaureate Programs**Master of Arts Degree in Geography**

The Master of Arts degree program in Geography is designed to prepare students for teaching at the secondary and community college levels, employment in government and private industry, and further graduate study in geography.

Admission to the Program

Applicants must possess a baccalaureate in geography with a minimum 2.75 grade point average (A=4.0) in the last 90 quarter units and be approved by the department's graduate studies subcommittee. Applicants whose undergraduate major was not geography must have a minimum 2.75 grade point average in the last 90 quarter units attempted, a minimum B (3.0) grade point average in all geography courses attempted, and must have completed 16-32 quarter units of geography courses. Those who have completed no lower division course work in geography must complete GEOG 370 (World Regions) or equivalent.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Before enrolling in GEOG 599 or taking the comprehensive examination (GEOG 596), students must satisfy *one* of the following requirements, subject to principal graduate adviser approval:

Foreign Language or Statistics Requirement

- Pass a reading examination in a language other than English (FL 901) in the geographic literature of a modern language, as offered by the Department of Modern Languages and Literatures and in accordance with the practice of that department.
- Complete 12 units in a modern language in accordance with the practice of that department.
- Complete CIS 100 or CS 290 with a grade of *B* or higher.
- Pass an examination in statistical methods in geography administered by the department.
- Complete an upper division statistics course with a grade of *B* or higher.

Geography Core Seminar (4 units)

GEOG 570 Seminar: Nature of Geography (4)

Electives (12 units)

Select 12 units from following

GEOG 530 Seminar: Urban Social Systems (4)

GEOG 571 Seminar: Regional Geography (4)

GEOG 575 Seminar: Human Geography (4)

GEOG 580 Seminar: Physical Geography (4)

Select electives with the approval of the principal graduate adviser. Students may repeat GEOG 571, 575, and 580, provided the seminar topic is not repeated in the exact area and theme.

Electives in Geography and Related Fields (20–29 units)

Select 400 and 500-level GEOG courses. Students who elect the comprehensive examination option must include a minimum of 7 units at the 500 level. With approval of the principal graduate adviser, a maximum of 8 units may be in related fields.

Comprehensive Examination or Thesis (0, 6–9 units)

Students who select the comprehensive examination must include a minimum of 29 units in *Electives in Geography and Related Fields* above, should expect to take the examination (GEOG 596) the quarter they complete all course work on their program, and must comply with school and departmental requirements.

The examination consists of a section about geographic theory plus sections about two of the following areas selected by the student: advanced regional geography, advanced physical geography, advanced human geography, geography research techniques.

Students who elect to write a thesis will need to enroll in GEOG 599 for a minimum of two quarters and a total of 6–9 units. In addition to the 16 units of required core seminars, these students need to complete a minimum of 20–23 units of electives to satisfy the 45-unit requirement for the master's degree.

List of Courses - Undergraduate Level**Courses in Geography (GEOG)****Lower Division Courses****101 Earth Science (4)****(also listed as GEOL 101)**

Nature of the earth's land, water, and atmosphere with emphasis on dynamic processes in the earth's crust and atmosphere that have interacted to form the world's physical environments.

150 Human Geography (4)

Area studies of peoples of world and their settlement characteristics; evaluation of origins, dispersals, and contemporary distributions of representative ways that humans live on earth.

CAN GEOG 4**155 Cultural Geography (4)**

Studies of the sociocultural characteristics of contemporary societies within their manifested spatial structure. Focuses on similarities and differences of various cultures with respect to racial, ethnic, religious, linguistic, demographic, and organizational characteristics.

GE D**160 Physical Geography (4)**

Introduction to principles and processes affecting the nature and dynamical interactions of the physical world and its inhabitants. Emphasizes the atmosphere, hydrosphere, soils, and vegetation and their spatial relationships.

CAN GEOG 2 GE B3**170 Meteorology (3)**

Co-requisite: GEOG 171, Meteorology Lab. Course surveys the major atmospheric processes, with emphasis on weather phenomenon, severe storms, droughts, and flood-producing events. Use of weather charts and satellite imagery in forecasting examined. Lecture 3 hours.

GE B2**171 Meteorology Lab (1)**

Co-requisite: GEOG 170. Course studies atmospheric phenomena and related storm development and movement through field measurements, analyzing weather charts and satellite images. Theories and practice of weather forecasting explored.

GE B2**210 Map Reading and Interpretation (4)**

Prerequisites: GEOG 150, 160. Nature of maps and their interpretation. Lecture 2 hours, laboratory 4 hours.

268 Microcomputer Applications in Geography (4)

Basic PC skills that familiarize students with word processors, spreadsheets, data bases, and geographically-oriented software, including urban analysis, population, climatology, and computer mapping programs. Lecture 2 hours, laboratory 4 hours.

Upper Division Courses

Unless otherwise stated, the prerequisite for all 400-level GEOG courses is GEOG 150 or 160 or 370.

310 Urban Climatology (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. The course investigates urbanization effects on the immediate atmospheric environment. Students evaluate these effects through direct measurements and data analyses. Topics include architecture, urban planning and pollution.

GE Theme D**322 Global Change and the Human Condition (4)****(also listed as POLS 322)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Explores the politics of global environmental concerns, or the procedures by which states and organizations address pressing environmental problems.

GE Theme G**333 Environment and Development in the Third World (4)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B.

The physical environments of the Third World and associated problems of development.

GE Theme A**341 World Resources and Environmental Issues (4)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D.

Consideration of the world's renewable and nonrenewable resources, interrelationships between population growth, resource utilization, and environment; variable topics relating to resource issues and environmental sustainability.

GE Theme G

358 Environment, Earth Systems and Technology (4)
(also listed as CE 358)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Consider the role of technology in the changing relationships between human societies and their environment; studies the impact of the agricultural, industrial and information revolutions on natural systems and sustainability. **GE Theme G**

370 World Regions (4)

Major physical regions of world and their occupational development by humans.

376 Urban Spatial Process and Patterns (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block D. Critical examination of the spatial processes of urbanization and characteristics of cities. **GE Theme D**

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

402 Geomorphology (4)

Prerequisites: GEOG 160; GEOG 210 or GEOL 150. Identification and interpretation of landforms. Local field trip.

405 Cartography (4)

Prerequisite: GEOG 210. Design and drafting of maps. Lecture 3 hours, laboratory 3 hours.

410 Weather and Climate (4)

Atmospheric behavior and how it produces our day-to-day weather; weather phenomena: severe storms, floods, droughts, atmospheric optics; processes involved in forecasting.

415 Perspectives on Environment (4)

Environmental interactions in subsistence and urban-industrial societies; impact of human activities on environment: modification of vegetation, hydrology, and landforms, accelerated soil erosion, climatic change; environmental perception; awareness of and adjustment to natural hazards.

421 United States (4)

Identification, interpretation, and synthesis of regional phenomena within the U.S. characterizing its physical and cultural landscape.

423 Europe (4)

Analysis of physical and cultural features of Europe.

424 South and Southeast Asia (4)

Analysis of human, cultural, and physical features of South and Southeast Asia; emphasis on roles of Asian nations and peoples in world relationships.

425 Japan (4)

Interpretation of population and economic problems, sociocultural patterns, and physical features of the land.

427 Mexico and Central America (4)

Nature of the land and characteristics of human settlement features in Mexico and Central America.

428 South America (4)

Character of physical and cultural environment in countries of South America.

430 China (4)

Physical and economic regional geography of China and its inner-Asian frontiers, including study of its demography, industrial and agricultural development, transportation, and energy infrastructure.

431 California (4)

Physical environments of California and human settlement features, past and present.

432 Metropolitan Los Angeles (4)

Investigation of the physical and cultural geographic characteristics that have contributed to Los Angeles' dynamic urban growth and its dominance as the primate city within the region.

434 Pacific Asian Physical Environments and Technological Developments (4)

Physical environments of Pacific Asian countries and their associated problems in technological development and resource utilization.

442 Population (4)

Spatial analysis of demographic variables with emphasis on environmental, social, and economic factors influencing population distribution and mobility; population growth in relation to resource utilization.

446 U.S. Ethnic Communities (4)

Spatial structure and organization of selected ethnic communities in the U.S. and their interrelationships with American composite cultural environment.

451 Historical Geography of North America (4)

Prerequisite: GEOG 150. Development of North America from earliest European contact through the present, emphasizing spatial process and patterns.

453 Locational Analysis (4)

Location and spatial distribution of economic activities; development and applicability of various locational models in geography; agricultural, industrial, central place, intracity, social gravity, and spatial interaction models; emphasis on development of dynamic geographic models pertaining to regional planning. Lecture 3 hours, laboratory 2 hours.

460 Field Geography (5)

Prerequisites: GEOG 150, 160; 210 or 370. Field identification and interpretation of natural and man-made features, and methods used therein. Lecture 2 hours, field work 6 hours. May be repeated once for credit if one enrollment is in program at off-campus field center.

465 Air Photo Interpretation (4)

Prerequisite: GEOG 210. Interpretation of natural and cultural landscapes as revealed in aerial photographs. Lecture 2 hours, laboratory 4 hours.

466 Remote Sensing of Environment (4)

Prerequisite: GEOG 465. Analysis of natural and cultural features of earth's environment using photographic, infrared, and microwave imagery. Lecture 2 hours, laboratory 4 hours.

467 Transportation (4)

Modes of movement of people, products, and ideas; their impacts on spatial patterns and landscapes.

468 Computer Cartography (4)

Prerequisites: GEOG 268, 405. Production of computer maps for students with limited computer background; drawing quality maps on printer, plotters, and graphics terminals using available software. Lecture 2 hours, laboratory 4 hours.

469 Geographic Information Systems Applications (4)

Prerequisite: GEOG 468. Theories and applications of Geographic Information Systems (GIS); use of GIS for planning purposes such as development projects, urban analysis, and environmental planning. Lecture 2 hours, laboratory 4 hours.

471 Advanced Cartography (4)

Prerequisite: GEOG 405. Advanced methods of cartographic rendering, including reproduction, negative scribing, color separation, terrain rendering, and plastic shading. Lecture 3 hours, laboratory 3 hours.

475 Settlement (4)

Human manner of settling new lands and resettling old lands, with special emphasis on form and function of resulting settlements.

476 Urban Areas (4)

Analysis of distribution of world's cities, and investigation of function and form of representative urban areas.

477 Urban Issues (4)

Presentation of issues relating to physical, technological, and economic characteristics and functions of urban areas. Lecture 3 hours, laboratory 3 hours (field trips and directed urban encounter).

481 Political Geography (4)

Physical and cultural phenomena that relate to problems and policies of world's states.

495 Senior Thesis (4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR) and senior standing. Advanced principles of geographic writing and research culminating in a senior thesis.

496 Special Topics (1-4)

Prerequisites: As needed for specific topic. May be taken concurrently with GEOG 497. Specialized systematic and regional topics in geography as announced in *Schedule of Classes*. Lecture 1–4 hours. May be repeated as subject matter changes.

497 Special Topics (1-4)

Prerequisites: As needed for specific topic. May be taken concurrently with GEOG 496. Special topics of interest to students in geography as announced in *Schedule of Classes*. Activity 2–8 hours. May be repeated for credit as subject matter changes.

499 Undergraduate Directed Study (1-4)

Prerequisites: Instructor consent to act as sponsor; ability to do independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 8 units as subject matter changes.

Courses in Urban Analysis (URBA) Lower Division Course

180 The Urban World (4)

Worldwide issues relating to the physical, technological, economic, political, historical, sociological and environmental characteristics of urban areas. **GE D**

Upper Division Courses

400 Proseminar: Urban Analysis (4)

Prerequisite: Completion of all other requirements for Urban Analysis option. Analysis of specific urban problems and potential solutions from an interdisciplinary perspective. May be repeated as subject matter changes.

401 Senior Project (4)

Prerequisites: Completion of all other requirements for Urban Analysis option, prior approval of project by advisory committee. May be taken concurrently with URBA 400. Interdisciplinary group project; identification of specific urban problems, application of special skills in assembling information, proposing and initiating implementation of solution. May be repeated once for credit.

454 Selected Topics in Urban Analysis (1-6)

Current topics of special interest in urban studies and related fields as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

499 Undergraduate Directed Study (1-4)

Prerequisites: Consent of an instructor to act as sponsor, approval of coordinator. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Graduate Level Courses (GEOG)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission for all 500-level courses.

**530 Seminar: Urban Social Systems (4)
(also listed as SOC 530)**

Prerequisite: Instructor consent. Growth and nature of urban social systems in selected cities and metropolitan areas; theories of urban structure and problems; improving quality of urban life; comparisons of cities in various countries.

570 Seminar: Nature of Geography (4)

Prerequisite: Instructor consent. History, objectives, and methods of geography.

571 Seminar: Regional Geography (4)

Prerequisite: Instructor consent. Selected regions of world. May be repeated as subject matter changes.

575 Seminar: Human Geography (4)

Prerequisite: Instructor consent. Selected topics pertaining to geography of man. May be repeated as subject matter changes.

580 Seminar: Physical Geography (4)

Prerequisite: Instructor consent. Seminar on nature, origin, and a real occurrence of physical qualities of the land (climate, landforms, water, soils, and vegetation). May be repeated as subject matter changes.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor. May be repeated to a maximum of 12 units for credit.

599 Thesis (1–6)

Prerequisites: Advancement to candidacy, approval of department, completion of course work in master's program, completion of foreign language or upper division statistical or computer skill requirement. May be repeated to maximum of 9 units. Graded CR/NC.

Department of**Geological Sciences**

School of Natural and Social Sciences

DEPARTMENT OFFICE

Physical Sciences 216

Phone: (323) 343-2400

Email: geology@calstatela.edu

Website: www.calstatela.edu/dept/geology/

The Department of Geological Sciences offers the Bachelor of Science degree in Geology, the Master of Science degree and a minor for students majoring in other fields.

Programs in geology develop a comprehensive study of Earth materials, structures, and processes. Courses to serve both general and professional interests are offered.

The Faculty

Professors: Terry E. Davis, Richard W. Hurst, Gary A. Novak, Robert J. Stull (*Chair*).

Associate Professor: Pedro C. Ramirez.

Assistant Professors: Kim M. Bishop, Barry Hibbs.

Emeriti: Ivan P. Colburn, Alan A. Colville, Perry L. Ehlig, Robert F. Meade.

Undergraduate Programs**Bachelor of Science Degree in Geological Sciences**

The Bachelor of Science degree program provides in-depth study for professional work in engineering geology, hydrogeology, and environmental science or graduate study.

The Bachelor of Science degree in Geology requires a total of 192 quarter units and is designed for students who plan a professional geological career in government and industry or graduate study in geology and related fields.

Requirements for the Major (124 units)

A total of 124 units of geology, related physical sciences, and mathematics is required for the Bachelor of Science degree major. 51 units are in lower division courses and 73 are in upper division courses in geology and related fields.

Lower Division Required Courses (51 units)

GEOL 150 Earth Revealed (4)
 GEOL 201 Elementary Mineralogy (6)
 GEOL 203 Introductory Petrology (2)
 GEOL 252 Historical Geology (4)
 CHEM 101-103 General Chemistry I-III (5,5,5)
 MATH 206, 207 Calculus I, II (4, 4)
 PHYS 101-103 Physics (4, 4, 4)

Upper Division Required Courses (49 units)

GEOL 360 Geological Mapping (4)
 GEOL 370 Geochemistry (4)
 GEOL 372 Computers in Geology (4)
 GEOL 400 Optical Mineralogy (5)
 GEOL 401 Igneous Petrology (5)
 GEOL 402 Sedimentary Petrology (4)
 GEOL 403 Metamorphic Petrology (4)
 GEOL 410 Structural Geology (5)

Upper Division Required Courses (cont' d)

GEOL 430 Stratigraphy (6)
 GEOL 460A Summer Field Geology I (5)
 GEOL 460B Report for Field Geology I (3)

Electives (24 units)

Select 24 units from the following with adviser approval:

GEOL 321, 411, 422, 424-426, 433-435, 452, 473, 480-486, 490, 491, 497, 499

In addition, students may select up to 4 units of upper division biology, chemistry, computer science, engineering, mathematics, and physics courses with adviser approval. Students are advised to consult the *Schedule of Classes* for special topics courses (GEOL 490 and 491) which may be used to satisfy the geology elective requirements.

Minor in Geological Sciences

This program is designed for students majoring in other fields who wish to broaden their experience in science or prepare for careers such as teaching, public service, or law. The minor requires 34 units in geology and related fields. Consultation with a department adviser is recommended. Students with majors in related physical sciences may substitute other courses with approval of a Geological Sciences adviser.

Requirements for the Minor (34 units)**Lower Division Required Courses (22 units)**

GEOL 150, 155, 158, 201, 252

Upper Division Required Courses (12 units)

GEOL 321, 350
 GEOG 410

The Credential Program

The Department of Geological Sciences participates in the Bachelor of Science degree program in Natural Science described later in this chapter, which is also approved for the Single Subject Science credential. An additional supplementary authorization for the Single Subject credential is described just below this paragraph. Interested students should consult advisers in both the Department of Geological Sciences and the Charter School of Education. Refer to the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Supplementary Authorization for Single Subject Teaching Credential (38 units)

Holders of a Single Subject teaching credential issued by state of California may supplement that credential with an authorization in Earth Sciences for teaching Earth sciences at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with grade of C or higher in each course. For other requirements governing issuance of this authorization, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (38 units):

GEOL 150	Earth Revealed (4)
GEOL 155	Oceanography (4)
GEOL 158	Natural Disasters (4)
GEOL 201	Elementary Mineralogy (6)
GEOL 252	Historical Geology (4)
GEOL 321	Geology of Southern California (4)
GEOL 350	Evolution of the Universe and the Earth (4)
ASTR 151	Principles of Astronomy (3)
ASTR 152	Principles of Astronomy: Laboratory (1)
GEOG 410	Weather and Climate (4)

Graduate and Postbaccalaureate Programs

Master of Science Degree in Geological Sciences

The objective of the Master of Science degree in Geology is to prepare students for professional level employment in industry and government, teaching positions in community colleges, or advanced study toward the Ph.D. degree. A student may achieve this objective by completing the program with either a thesis or a comprehensive examination.

Cooperative Program

The Department of Geological Sciences participates in a cooperative program with California State University campuses at Long Beach and Northridge. This cooperative program enables students to apply an unrestricted number of courses from the participating campuses toward the M.S. degree. Students take part on a voluntary basis and are not required to enroll at the Long Beach or Northridge campuses. The cooperative program offers students the advantage of utilizing the faculty and equipment of a larger part of the California State University system.

Admission to the Program

Admission requirements include possession of a bachelor's degree in geology, or equivalent, from an accredited college or university, with a minimum 2.75 grade point average in the last 90 quarter units and upper division course work substantially equivalent to that required of Cal State L.A. geology majors. Applicants who are lacking appropriate upper division geology courses may be admitted to the program but will be expected to remove any deficiencies by completing appropriate courses selected through consultation with the graduate adviser.

Application Procedures

Applications for any quarter should be submitted early in the preceding quarter both to the Department of Geological Sciences and to the University. In addition to the specific

prerequisites stated above, students must meet University requirements for admission to graduate study.

Requirements for the Degree (45 units)

The graduate program requires 45 quarter units of work including 22.5 units of 500-level courses chosen with adviser approval. All students must complete *Graduate Research* (GEOL 597) and either a *Thesis* (GEOL 599) or the *Comprehensive Examination* (GEOL 596).

With approval of the department graduate adviser, students may substitute appropriate 400 or 500-level courses from related areas in science, mathematics, or engineering in the official program to a maximum of 13.5 quarter units.

Elective Graduate Courses

GEOL 525	Sedimentary Processes, Environments, and Structures (4.5)
GEOL 530	Seminar: Structural Geology and Tectonics (4.5)
GEOL 531	Tectonic Problems of Southern California (4.5)
GEOL 533	Seminar: Quaternary Geology (4.5)
GEOL 560	Hydrogeology (4.5)
GEOL 561	Vadose Zone Hydrogeology (4.5)
GEOL 562	Contaminant Hydrogeology (4.5)
GEOL 570	Special Topics (2 - 4.5)
GEOL 581	Seminar: Engineering Geology (4.5)
GEOL 583	Engineering Geomorphology (4.5)
GEOL 584	Paleoseismology (4.5)
GEOL 585	Landslides, Avalanches, and Debris Flows (4.5)
GEOL 598	Graduate Directed Study (1.5 – 4.5)

Required Graduate Courses (4.5 - 9 units)

GEOL 597	Graduate Research (4.5)
Either GEOL 596 Comprehensive Examination (0 units) or GEOL 599 Thesis (4.5)	

List of Courses (GEOL) - Undergraduate Level

+There is a special fee associated with registering for classes that carry this designation. Details appear in the Schedule of Classes.

Lower Division Courses

101 Earth Science (4) (also listed as GEOG 101)

The nature of the dynamic processes in the Earth's crust, oceans, and atmosphere. Primarily for students preparing for a multiple subject teaching credential. Activities may be incorporated into students class curriculum.

150 Earth Revealed (4)

Introduction to Geology; Earthquakes, volcanoes, plate tectonics, origin of deserts, mountains, and other landscapes; character of Earth's interior. Select either classroom or field trip laboratory. Lecture 3 hours, Laboratory 1 Hour.

GE B2

+155 Oceanography (4)

Introductory Oceanography: Origin of oceans; sea floor features; ocean sediments, life, and circulation; seawater properties; and coastal processes. Laboratory: One-day ocean cruise and one-day coastal trip. Lecture 3 hours, Laboratory 1 hour.

GE B2

158 Natural Disasters (4)

Causes, characteristics, and case histories of natural disasters affecting civilization. Topics include earthquakes, volcanic eruptions, landslides, storms and floods, sea waves, meteor impacts, climate change, and mass extinctions.

GE B3

201 Elementary Mineralogy (6)

Prerequisites: CHEM 101, MATH 102. Nature of crystalline state, description and projection of crystals, general study of the seven crystal systems; crystal chemistry of silicate and non-silicate minerals. Lecture 3 hours, laboratory 9 hours.

203 Introductory Petrology (2)

Prerequisite: GEOL 201. Elementary methods of rock and rock-forming mineral description, identification, and interpretation involving igneous, sedimentary and metamorphic rocks. Lecture 1 hour, laboratory 3 hours.

252 Historical Geology (4)

Prerequisites: GEOL 150, 155, or 158. Plate tectonic evolution of continents, oceans, and mountain systems and geologic history of Earth; introduction to stratigraphy and development of ancient life. Lecture 2 hours, laboratory 6 hours.

CAN GEOL 4

Upper Division Courses

321 Geology of Southern California (4)

Prerequisite: GEOL 150. Geologic provinces of southern California including geologic history, structure, rock types, and landforms. Field laboratory on weekends. Lecture 2 hours, laboratory 6 hours.

341 Evolution of Earth and Life through Time (4) (also listed as BIOL 341N)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Evolution of pre-historic life and geological features of the Earth. Catastrophic extinctions of dinosaurs and other life forms. The drifting, rifting, colliding continents. Ice ages, volcanoes, earthquakes, and mountain building. (No credit for Biology major or minor). **GE Theme G**

350 Evolution of Universe and Earth (4) (also listed as PHYS 350N)

Prerequisite: GE natural science requirement. Origin and evolution of the universe, elements, stars, Sun, the Earth, and life upon it.

351 Environmental Geology of Developing Nations (4)

Prerequisites: Completion of Basic subjects (Block A) and one course from Block B. Geologic hazards and natural resources of developing nations. Topics include impact and mitigation of natural disasters and the role of natural resources in advancement of the human condition. Lecture 4 hours.

355 Scientific Perspectives on Global Change (4) (Course also listed at BIOL 355N and CHEM 355N)

Prerequisites: Completion of GE Basic Subjects (Block A) and one course from Block B. Natural and human-induced origins of global change. Alterations of Earth's natural cycles; impacts of climate change and loss of physical and biological resources; achieving a sustainable future. Lecture 4 hours.

GE Theme G

357 Urban Geology (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Geologic conditions and processes (earthquakes, volcanoes, floods, landslides, coastal processes, etc.) as they affect urbanized areas around the world. Urban governmental planning and regulation for mitigation of geologic problems.

GE Theme D

360 Geological Mapping (4)

Prerequisites: GEOL 201, 203, 252. Topographic map construction and reading; Brunton and tape traverse for construction of cross sections, stratigraphic columns, and geologic maps; methods of field note taking and geologic report writing. Laboratory and field trips 12 hours.

370 Geochemistry (4)

Prerequisites: GEOL 201, 203, 372; prerequisite or corequisite: MATH 206. Interpretation of geological phase diagrams, trace element distribution, isotope tracers, radiometric dating systems, light stable isotopes, aqueous solutions in ore deposits, Eh-pH controls on mineral equilibrium during weathering, and diagenesis.

372 Computers in Geology (4)

Prerequisite: MATH 103. Workstation operating system, electronic mail, applied word processing, spreadsheet tables and graphs, descriptive and inferential statistics including Chi Square analysis, tools and resources of the Internet, and computer-aided illustration. Lecture 2 hours, laboratory 6 hours.

400-level Courses

All 400-level courses may be applied towards master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: GEOL 400, 401, 402, 403, 410, 430, 460AB, 497, 499

400 Optical Mineralogy (5)

Prerequisite: GEOL 201. Optical properties of crystals in polarized light, determination of minerals in thin sections, and immersion oils with the petrographic microscope. Lecture 2 hours, laboratory 9 hours.

401 Igneous Petrology (5)

Prerequisites: GEOL 360, 370, 400. Origin, occurrence, and characterization of igneous rocks; their mineralogy, petrology, geochemistry, and plate tectonic setting. Lecture 3 hours, laboratory 6 hours.

402 Sedimentary Petrology (4)

Prerequisites: GEOL 370, 410. Analysis of sediments and sedimentary rocks involving their description, classification, and origin. Principles of sedimentation, recognition of environments of deposition. Lecture 2 hours, laboratory and field trips 6 hours.

403 Metamorphic Petrology (4)

Prerequisites: GEOL 360, 401, 402. Origin, occurrence, characterization of igneous rocks; laboratory emphasis on petrographic description and field studies. Lecture 2 hours, laboratory and field trips 6 hours.

410 Structural Geology (5)

Prerequisites: GEOL 360, MATH 206. Prerequisite or corequisite: PHYS 101. Theory of rock deformation, structural features of sedimentary, igneous, and metamorphic rocks; deformation of the Earth's crust, applied practice in laboratory methods dealing with geologic problems in three dimensions. Lecture 3 hours, laboratory 6 hours.

411 Geotectonic Development of California (4)

Prerequisites: GEOL 410, 430, Tectonic development of California in chronological order from Proterozoic to modern time. Topics include Proterozoic rifting, Antler, Sonoman, Nevadan, Sevier, and Laramide Orogenies, and tectonic origin of present day features.

422 Environmental & Forensic Geochemistry (4)

Prerequisite: GEOL 370. Use of geochemical tracers to investigate environmental problems; identifying sources of pollution; fate and transport of inorganic and organic contaminants via statistical and isotopic tracers; age-dating environmental release.

424 Low Temperature Geochemistry (4)

Prerequisite: GEOL 370. Low temperature minerals and their formation; diagenetic reactions; low grade metamorphism; role of fluids in mineral paragenesis.

425 Isotope Geology (4)

Prerequisite: GEOL 370. Application of radiogenic and stable isotopes to the study of the Earth's lithosphere, hydrosphere, and biosphere; principles of geochronology and light stable isotope fractionation.

426 Astrogeology (4)

Prerequisite: GEOL 401. Terrestrial planets; meteorites, the moon, asteroids, comets; remote sensing of the Giant Planets; origin of the solar system.

430 Stratigraphy (6)

Prerequisite: GEOL 402. Paleogeography and reconstruction of ancient environments of sedimentary basins through application of structural, petrologic, stratigraphic, and paleontologic principles; stratigraphic analysis of economic deposits; report writing and field note taking; stratigraphic section measurements and analysis. Lecture 4 hours, laboratory and field trips 6 hours.

433 Quaternary Geology (4)

Prerequisite: GEOL 252. History of the Earth during and since Ice Ages; causes, mechanisms, and global physical and biological effects of glaciation.

434 Volcanology (4)

Prerequisites: GEOL 360, 370. Tectonic setting; petrogenesis; interpretation of volcanic rocks.

435 Coastal Processes and Environments (4)

Prerequisite: GEOL 252 or consent of instructor. Interpretation and identification of the origin of coastal features and environments through analysis of fluvial, wave, tidal, sea level, tectonic, and urbanization processes. Lecture 2 hours and field trips 6 hours.

452 Economic Geology of Metallic Deposits (4)

Prerequisites: GEOL 360, 370. Geochemistry of ore formation occurrence and distribution of metallic deposits, laboratory examination of ore suites. Lecture 3 hours, laboratory and/or field trips 3 hours.

460A Summer Field Geology I (5)

Prerequisites: GEOL 403, 410, 430. Corequisite: GEOL 460B. First seven weeks of quarter: five weeks in a field camp, off campus, investigating area of sedimentary, metamorphic, and igneous rocks and geologic structure; sixth and seventh weeks on campus preparing maps and reports.

460B Report for Field Geology I (3)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Corequisite: GEOL 460A. Preparation of geologic map, cross sections and report about entire area covered by class in GEOL 460A.

473 Clay Mineralogy (4)

Prerequisite: GEOL 370. Crystal structures, classification, origin, occurrence, and physicochemical properties of clay minerals; identification by x-ray diffraction and DTA techniques.

480 Principles of Geophysics (4)

Prerequisites: PHYS 103 or 203; MATH 207; GEOL 150 recommended. Internal physics of the Earth, interpretation of data and theories concerning the geodetic, tectonic, isostatic, thermal, seismic, gravity, magnetic, radioactive, and electrical phenomena of the Earth.

481 Engineering Geology (4)

Prerequisite: GEOL 460AB. Analysis of geologic factors affecting engineering projects; includes mechanical properties of rocks and soils, landslides, slope stability, subsidence, groundwater, erosion and silting, and earthquake effects.

482 Engineering Geology Laboratory (2)

Prerequisite or corequisite: GEOL 481. Methods of laboratory soil testing used in engineering geology, including compaction, grain size, shear strength, expansion, and Atterberg Limits tests. Laboratory 6 hours.

483 Photogeology (4)

Prerequisite: GEOL 360. Use of aerial photographs to interpret geological structures and lithologies shown on topographic maps; analysis of photos for engineering projects. Lecture 3 hours, laboratory 3 hours.

484 Hydrogeology (4)

Prerequisite: MATH 207. Occurrence, movement, quality of surface water and groundwater emphasizing geologic factors. Lecture 3 hours, laboratory 3 hours.

485 Groundwater Management and Models (4)

Prerequisite: GEOL 484. Mathematical models as tools of groundwater management; case histories of various levels of groundwater management; laboratory includes verification and prediction using finite difference models on computer systems. Lecture 3 hours, laboratory 3 hours including one field trip.

486 Environmental and Engineering Geophysics (4)

Prerequisite: GEOL 484 or instructor's consent. Study of geophysical methods with special application to environmental and engineering problems, including seismic refraction/reflection, electrical methods, gravity, ground-penetrating radar, and borehole geophysics. Lecture 3 hours, laboratory 3 hours.

490 Special Topics in Geology (1–4)

Prerequisites: As needed for a specific topic. Current topics of special interest in advanced geology and related fields as announced in *Schedule of Classes*. May be repeated to a maximum of 16 units as subject matter changes.

491 Special Laboratory Topics in Geology (1–3)

Prerequisite: As needed for specific topics. Laboratory activities for current topics of special interest in geology as announced in *Schedule of Classes*. May be repeated to a maximum of 12 units as subject matter changes.

497 Senior Problem (3)

Prerequisites: Senior standing in geology, prior instructor consent to act as sponsor. Individual study of an applied geologic field or laboratory problem; progress reports, final oral and written report required.

499 Undergraduate Directed Study (1–4)

Prerequisites: Consent of an instructor to act as sponsor, ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to a maximum of 4 units.

Graduate Level Courses (GEOL)

All 400-level courses may be applied towards master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: GEOL 400, 401, 402, 403, 410, 430, 460AB, 497, 499.

Classified graduate standing is required for admission to all 500-level courses.

525 Sedimentary Processes, Environments, and Structures (4.5)

Prerequisites: GEOL 402, 430. Identification and analysis of sedimentary structures and hydrodynamically generated bedforms to determine sedimentary processes and environments of deposition.

530 Seminar: Structural Geology and Tectonics (4.5)

Prerequisite: GEOL 410 or upper division structural geology course. Critical review of selected topics concerning analysis, interpretation, and origin of geologic structures, mechanics of rock deformation and of large scale crystal deformation.

531 Tectonic Problems of Southern California (4.5)

Prerequisite: GEOL 410 or upper division structural geology course. Current topics in the geotectonic evolution of southern California.

533 Seminar: Quaternary Geology (4.5)

Prerequisite: GEOL 430. Studies of Quaternary climate, geomorphology, and soils including interglacial and glacial history.

560 Hydrogeology (4.5)

Prerequisite: GEOL 484. Advanced study of groundwater topics including aquifer testing, regional groundwater flow, water chemistry mass transport, and groundwater models. Lecture 3.5 hours, laboratory 3.0 hours.

561 Vadose Zone Hydrogeology (4.5)

Prerequisite: GEOL 484. Study of water movement and solute transport in the vadose (unsaturated) zone; including soil physics; infiltration theory; solute movement, noninteracting and interacting solutes; physical measurements; and field instrumentation. Lecture 3.5 hours, laboratory 3.0 hours.

562 Contaminant Hydrogeology (4.5)

Prerequisite: GEOL 484. Mass transport of contaminants in groundwater, principles of groundwater hydrology applied to organic and inorganic chemical migration, monitoring groundwater contamination, geochemical tracers of groundwater contamination, groundwater remediation.

570 Special Topics (2–4.5)

Prerequisite: Instructor consent. Discussion of selected topics in geology. May include up to 2 units of laboratory. May be repeated for credit as subject matter changes.

581 Seminar: Engineering Geology (4.5)

Prerequisite: GEOL 481 or senior engineering geology course. Advanced study relating geologic factors to engineering projects, with emphasis on slope stability, subsidence, engineering seismology, and construction problems related to engineering geology.

583 Engineering Geomorphology (4.5)

Application of geomorphic analysis to engineered structures; techniques and methods of evaluating landscape evolution during last 50,000 years.

584 Paleoseismology (4.5)

Prerequisites: GEOL 481. Recognition of paleoseismic events in the geologic record, Quaternary slip-rates and coseismic deformation, modeling fault-scarp degradation, behavior of seismogenic faults, and seismic-hazard analysis.

585 Landslides, Avalanches, and Debris Flows (4.5)

Prerequisite: GEOL 481. Recognition, mechanics, and analysis of mass wasting features including landslides, rock avalanches, debris flows, rock falls, and lateral flows. Field mapping and computer stability analysis activities. Lecture 3.5 hours, laboratory 3.0 hours.

597 Graduate Research (1.5–4.5)

Prerequisites: Instructor consent to act as sponsor, approval of project by student's graduate advisory committee. Independent research under guidance of faculty. Graded CR/NC.

598 Graduate Directed Study (1.5–4.5)

Prerequisite: Instructor consent to act as sponsor. Directed research on subjects selected in consultation with faculty. May be repeated to maximum of 6 units.

599 Thesis (1.5–4.5)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor. Presentation of independent research work in a written thesis, which is defended orally. Graded CR/NC.

Department of**Health and Nutritional Sciences**

School of Health and Human Services

DEPARTMENT OFFICE

Fine Arts 218

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Lifetime wellness or health is dependent upon myriad factors, many of which are lifestyle-related. The primary mission of the Department of Health and Nutritional Sciences is to educate individuals to become entry-level health professionals at the bachelor's and the master's degree levels. In this capacity, graduates can promote positive, personal behavior changes and environmental changes that have an impact upon the health of the individual.

Programs in Health and Nutritional Sciences include Bachelor of Science degrees in Health Science and Nutritional Science as well as a Master of Arts degree in Health Science and a Master of Science degree in Nutritional Science. Students in the Health Science programs are prepared for professional service in health education, the health sciences and safety studies fields, and for advancement in allied health positions such as teaching in public and private health agencies; environmental, safety, public health, and consumer health investigators, and specialists in alcohol and drug programs. The nutritional science programs prepare students for careers in nutrition, dietetics, food service administration, and food science. The master's programs are described in the graduate section below.

The Faculty

Professors: John Orta, Chick F. Tam, Vicente S. Zapata.

Associate Professor: Behjat A. Sharif, Constantina Skanavis.

Assistant Professors: Laura Calderon, Pera Jambazian, Susan Lue, Teodoro V. Millon.

Emeriti: Carlton Blanton, Robert L. Fennessy, David L. Jacobsohn, Mary A. Kramer, Jane Sanford Lewis, Edward A. Maljanian, Margaret E. McWilliams, Pauline E. Schatz, Ben F. Scherer, William E. R. Whiteley.

Undergraduate Programs**Bachelor of Science****Degree in Health Science**

The Bachelor of Science degree in Health Science prepares students for leadership and educational roles in community health and occupational health and safety.

Requirements for the Major (124-128 units)

The Bachelor of Science degree in Health Science is available with a choice of two options: Community Health and Occupational Health and Safety. Both options require a minimum of 186 units. The major consists of 87-91 units (depending on the option selected), *plus* 37 units of lower division prerequisites that must be completed prior to enrollment in upper division courses. See *the Undergraduate Study: General Information Chapter* for details about the **General Education** and other requirements that constitute the units outside the major. The core for the major consists of 47 units.

Required Prerequisites (37 units)

BIOL 200AB	Human Anatomy and Physiology I, II (5, 5)
CHEM101	General Chemistry (5)
CIS 294	Business Computer System (4)
MATH 102	College Algebra (4)

Required Prerequisites (cont'd)

MICR 201, 202	Microbiology for Health Related Sciences (w/lab) (4,2)
PHYS 150	Principles of Physics (4)
SOC 201	Principles of Sociology (4)

Required Core (47 units)**Lower Division Required Core Courses (15 units)**

These courses must be completed prior to enrollment in upper division courses:

HS 150	Health Connections for Life (4)
HS 200	Introduction to Health Careers (4)
HS 201	Medical Emergencies Management (3)
NTRS250	Human Nutrition (4)

Upper Division Required Core Courses (32 units)

HS 311	Technical Writing for Health Sciences (4)
HS 410	Theory and Principles of Public Health (4)
HS/MICR 412	Introduction to Epidemiology (4)
HS 431	Community, Environmental Safety and Public Health Law (4)
HS 445	Health Promotion (4)
HS 463	International Health (4)
HS 471	General Principles of Environmental Health (4)
HS 472	Data Analysis for Health Science (4)

Options (40–44 units)

Select one from following:

Community Health Option**Required Courses (40 units)**

HS 413	Health Communication (4)
HS 440	Health Care Delivery System (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition and Tobacco (4)
HS 464	Community Health Care Programs (4)
HS 470	Public Health Administration (4)
HS 475	Proseminar: Current Issues in Health (4)
HS 476	Quality Assurance in Health Programs (4)
HS 479	Program Planning and Evaluation (4)
HS 496	Community & Occupational Health Internship (4,4)

Occupational Health and Safety Option

With careful course selection and adviser approval, students may earn the credit certificate in **Occupational Health and Safety** concurrently with the major with this option. The requirements for this certificate are described later in this section.

Required Courses (44 units)

HS 430	Occupational Health and Safety Programs (4)
HS 432	Theory and Principles of Industrial Hygiene (4)
HS 433	Material and Mechanical Hazards (4)
HS 434	Process Safety Management (4)
HS 437	Loss Control Principles (4)
HS 439	Incident Investigation and Analysis (4)
HS 478	Ergonomics and Human Factors (4)
HS 481	Occupational and Industrial Toxicology (4)
HS 483	Hazardous Waste Management Operations and Emergency Response (4)
HS 484	Implementation of Occupational Safety and Health Programs (4)
HS 496	Community and Occupational Health Internship (4)

Bachelor of Science**Degree in Nutritional Science**

Students must select one of two available options: the Nutrition option (which also prepares students to enter dietetics internships approved by the American Dietetic Association) or the Coordinated Dietetics Program (CDP) option. Graduates with the Coordinated Dietetics Program (CDP) option are fully eligible for membership in the American Dietetic Association and to take the national examination to become a Registered Dietitian (R.D.).

Requirements for the Major (127–136 units)

The Bachelor of Science degree in Nutritional Science requires a total of 186-190 units. The major requires 42 units in preparatory courses plus 85-94 units, 61 in the core and 24 or 33 in an option.

A minimum C grade is required in **all** courses used to meet major requirements.

Preparatory Courses (42 units)

ANTH 250	Cultural Anthropology (4) or
SOC 201	Principles of Sociology (4)
BIOL 200AB	Human Anatomy and Physiology I, II (5, 5)
CHEM 151, 152	Fundamentals of Chemistry I, II (5, 5)

Preparatory Courses (cont'd)

CHEM 353	Nutritional Aspects of Biochemistry (5)
ECON 150	Economics for the Citizen (4)
MICR 151	Introductory Microbiology (5)
PSY 150	Introductory Psychology (4)

Required Core Courses (61 units)

NTRS 210	Foundations of Food (4)
NTRS 312	Cultural Cuisine (4)
NTRS 317	Fundamentals of Human Nutrition (3)
NTRS 410	Experimental Foods (4)
NTRS 411	Evaluation of Current Nutritional Concepts (3)
NTRS 413	Maternal and Child Nutrition (4)
NTRS 414 AB	Institutional Food Service (4, 4)
NTRS 415 AB	Medical Nutrition Therapy (4, 4)
NTRS 417 AB	Advanced Nutrition (3, 3)
NTRS 417L	Nutritional Assessment Laboratory (1)
NTRS 418	Community Nutrition (4)
NTRS 434	Management Principles in Dietetics (5)
NTRS 455	Nutrition Computing Skills (3)
NTRS 479	Professional Interactions and Writing Skills (4)

Options (24-33 units)**Coordinated Dietetics Program Option (CDP) (33 units)**

The Coordinated Dietetics Program (CDP) option is designed for persons seeking both academic course work and supervised practice required to qualify to take the examination to become a Registered Dietitian. Students who complete the degree requirements in the CDP are eligible for membership in the American Dietetic Association (ADA). The four-year curriculum integrates academic preparation and clinical experience needed by the generalist in dietetics. Upon passing the national examination administered under the direction of the ADA, graduates are recognized as Registered Dietitians (R.D.). Postbaccalaureate students enrolled in the graduate program in Nutritional Science also are eligible to apply for admission to the CDP.

Eligibility

Students who seek preliminary admission to the CDP must fulfill the following criteria:

- Eligible for admission to Cal State L.A.
- Minimum 2.75 overall grade point average (*on a 4.0 scale*).
- Minimum 2.75 grade point average in the major, with no grade lower than C in courses required for membership in the ADA.
- Students may repeat CDP courses and prerequisite science courses in which they earned a grade lower than C only once to meet program admission criteria.
- Students must repeat any nutrition and biochemistry prerequisite courses they completed more than three years before beginning the CDP before they may enter the program.
- Satisfactory health for full participation in the clinical program. Before they may enter the CDP, students must complete a physical examination, including Mantoux skin test or chest x-ray and other laboratory tests (including proof of immunity to rubella), as specified in contractual agreements with clinical facilities.
- Upper division standing and completion of the first two years of the Nutritional Science major. Because of the intensity of the CDP, undergraduate students must

complete all lower division general education and preparatory courses before they may enter the program.

- Graduate students must have completed all preparatory courses for program admission. When admitted, graduate students enter the CDP as first year students in a two-year program.
- Valid California driver's license and access to an automobile, or transportation to clinical facilities.
- Professional liability, health, and automobile insurance.

Final approval for admission to the intensive clinical work in the senior year (NTRS 419ABC) is contingent upon recommendation of the CDP Review Board and maintenance of a minimum 2.75 grade point average.

Required Professional Courses (33 units)

NTRS 315*	Communication Skills in Dietetics (3)
NTRS 419 ABC	Supervised Practice in Dietetics (8, 8, 8)
NTRS 419S	Seminar: Dietetics (2, 2, 2)

* Only CDP students are eligible to take this course.

Option in Nutrition (24 units)

The option in Nutrition leads to careers in businesses and agencies involved in nutrition-related products and services and enables students to complete the academic requirements needed to qualify for a dietetic internship or supervised practice needed to qualify to take the examination to become a Registered Dietitian (R.D.)

Required Professional Courses (7-8 units)

NTRS 451	Nutrition and Aging (4)
COUN 406	Behavioral Counseling and Self-Management (4) or
COUN 450	Counseling Theories (3) or
COUN 479	Counseling Older Adults (4) or
COUN 480	Fundamentals of Counseling (4)

Supporting Professional Courses (16-17 units)

With approval of adviser, complete 16-17 units of additional supporting courses to specialize in an area of interest.

Minor in Health Science

A total of 45 units is required for the minor in Health Science. This program provides preparation for teaching in the areas of adult education, civil defense, medical self-help, Red Cross instructional programs, and in public schools.

Requirements for the Minor (45 units)

Lower Division Required Courses (21 units)

BIOL 200AB	Human Anatomy and Physiology I, II (5, 5)
HS 201	Medical Emergencies Management (3)
HS 150	Health Connections for Life (4) or
NTRS 250	Human Nutrition (4)
SOC 201	Principles of Sociology (4)

Upper Division Required Courses (24 units)

HS 410	Theory and Principles of Public Health (4)
HS 431	Community, Environmental Safety and Public Health Law (4)
HS 445	Health Promotion (4)

Upper Division Required Courses (cont'd)

HS 456	Health Studies on Alcohol, Narcotics, Nutrition and Tobacco (4)
HS 464	Community Health Programs (4)
HS 471	General Principles of Environmental Health (4)

Certificate Program: Specialist in Alcohol and Drug Problems

The certificate requires a total of 60 units, including 33 units of course work and field experience in health science and 27 units in related fields. Course selection is designed to supplement previous academic and/or vocational experience and to apply to basic professional training leading to the baccalaureate or to graduate degrees. The program prepares alcohol and other drug abuse specialists for employment in educational, therapeutic, rehabilitative, and consultant settings. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (60 units)

Required Courses (33 units)

HS 201	Medical Emergencies Management (3)
NTRS 250	Human Nutrition (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition and Tobacco (4)
HS 467	Problem Drinking and Alcoholism (3)
HS 468	Problems in Controlled Substances (3)
* HS 496	Community and Occupational Health Internship (12)
HS 499	Undergraduate Directed Study (4)

*Rehabilitation Counseling majors may substitute COUN 495 when placement in the agency providing services to alcohol-dependent or drug-dependent persons.

Electives (select 27 units from following):

ANTH 444
ART 425, 440, 445
BIOL 200AB
CRIM 439, 447, 460
COUN 200AB, 405AB, 445, 450, 480, 490, 494**
HS 431, 445, 464, 470, 476, 491***
MGMT 470
PSY 150, 405, 410AB, 441
SOC 201, 322A, 422, 425
SPCH 150, 278, 350, 454, 478, 489
UNIV 398

maximum 6 units *maximum 4 units

Certificate Program in Occupational Safety and Health

The Department of Health and Nutritional Sciences offers a credit certificate program designed to prepare occupational safety and health professionals to function as generalists in implementing safety and loss control programs in industry or in medical institutions. Developed in accordance with federal and state legal occupational safety and health acts, the program is applicable to the requirements for a bachelor's or a master's degree in health science. The program requires 45 units of upper division course work, including a 29-unit core and 16 units of electives. Admission to the program requires filing of a formal application to the department, a screening interview with the program adviser covering the applicant's prior academic work and employment experience, and

departmental approval of the individual student program. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Prerequisites

Required: MATH 102

Select five from following, with adviser approval:
BIOL 165 or 200AB; CHEM 151; HS 150 or 201; MICR 151;
PHYS 101 or 150; POLS 150; PSY 150; SOC 201

Requirements for the Certificate (45 units)

Required core (29 units)

HS 496 or 595* (5 units)

**Open only to graduate students*

Select 24 units from among the courses carrying the numbers
HS 430–483 (24 units)

Electives (16 units)

Communications Area

Select 4 units from following:
HS 311; MGMT 301; SPCH 430, 370; TECH 400

Select two courses from one of the five areas listed below. Area selected should reflect the student's academic preparation and, when applicable, work experience and certificate objective.

Business Orientation Area

CIS 301; ENGR 300; FIN 335, 436; MATH 342; PSY 442

Emergency Services Area

CRIM 362, 404, 437; HS 201,456

Fire Protection Area

TECH 351AB, 352AB, 451, 453AB

Occupational Health/Industrial Hygiene Area

COMD 400, 401, 402, 409; HS/MICR 412; PHYS 351N
CHEM 301ABC, 401–403, 412AB, 418, 462
HS 431, 464, 470, 467, 468

Technical Aspects Area

CE/ME 320; HS 478; ME 321; PHYS 312, 313, 427; PSY 447;
TECH 411, 440

Select remaining electives from any academic department with adviser approval.

The Credential Program

The Bachelor of Science degree in Health Science is authorized for the Single Subject Credential Program in Health Science. Refer to the **Charter School of Education** in the **Academic Programs: School-Based and University-wide** chapter of this catalog for regulations governing all teaching credential programs. Students interested in this credential should consult advisers in the Department of Health and Nutritional Sciences and the Charter School of Education. In addition, they *must* include the following courses in the major:
BIOL 200AB;
CHEM 151
HS 201, 311, 431, 455, 456, 463, 464, 470, 475, 479,
PSY 170 and 171

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Health Science

The Master of Arts degree in Health Science provides advanced preparation in health sciences and safety fields including school, community, and allied health programs. It qualifies graduates for advanced leadership positions and provides the health science foundation for community college teaching positions.

Admission to the Program

Prerequisites (10 units)

- HS 350 Health Maintenance Problems (3)
- HS 360 Selecting Health and Medical Services and Products (3)
- HS 463 International Health (4)

Applicants must have a baccalaureate from an accredited institution with sufficient courses in health science and the basic sciences to provide a foundation for advanced work. In addition, applicants must have a 2.75 grade point average in the last 90 quarter units or have demonstrated ability to earn a *B* (3.0) grade point average at the postbaccalaureate level.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Required Courses (14 units)

HS 530 Research Design in Health Science (4)
HS 560 Administration of Health Science Education (3)
HS 580 Seminar: Health Science Research (4)
HS 591 Advances in Health Science Education (3)

Electives (select 16–30 HS units with adviser approval)

Electives in related fields (select 0-14 units with adviser approval)

Comprehensive Examination, Thesis or Project (0, 6 units)

HS 596 Comprehensive Examination (0) and
HS 598 Graduate Directed Study (1–4) or
HS 599 Thesis or Project (6)

Students should expect to take the comprehensive examination (HS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

Master of Science Degree in Nutritional Science

The Master of Science degree in Nutritional Science is an individualized program designed to develop specialized professional competence in the selected areas of nutrition and dietetics, while also providing breadth in the related areas. The program is designed for persons preparing for positions as public health nutritionists or supervisors in dietetics and food production and service, or doctoral study in nutrition and dietetics.

Graduate students seeking to qualify for the Registered Dietitian examination may complete appropriate course work and clinical experiences concurrently with requirements for the master's degree by also completing courses in the Coordinated Dietetics Program (CDP).

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must possess a baccalaureate from an accredited university. Applicants must have a 2.75 grade point average in the last 90 quarter units. Graduates with a related major may enter the program but must complete the following:

Prerequisites

CHEM 353	Nutritional Aspects of Biochemistry (5)
NTRS 210	Foundations of Food (4)
NTRS 317	Fundamentals of Human Nutrition (3)

If applicable, corequisites must be approved by the department graduate studies committee.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Required Courses (19 units)

NTRS 519	Seminar: Nutritional Science (3)
NTRS 530	Research Concepts in Nutritional Science (4) or
HS 530	Research Design in Health Science (4)
NTRS 597	Graduate Research (4)
NTRS 511	Research Methodology in Nutritional Science (4)
NTRS 513	Advanced Problems in Nutritional Science (4)

Electives (11–26 units)

Select NTRS courses with approval of adviser and department graduate studies committee.

Electives in Related Fields (0–9 units)

Select with approval of adviser and department graduate studies committee.

Comprehensive Examination, Thesis or Project (0, 6 units)

NTRS 596	Comprehensive Examination (0) or
NTRS 599	Thesis or Project (6)

Students should expect to take the comprehensive examination (NTRS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

Certificate Program in Environmental Health Science

Offered by the Department of Health and Nutritional Sciences, this certificate program in Environmental Health Science can accelerate the qualification and admittance into the State of California's Registered Environmental Health Specialists examination. Environmental Health consists of those organized activities undertaken to protect and enhance the public's health through the control of potentially harmful materials, organisms, energies, and conditions in the environment. The two major aspects in an environmental health program are the prevention of disease and the protection and promotion of human well being. This certificate will encompass the entire general field of environmental health. The program requires a total of 20 units, which includes 16 units in the core and 4 units of electives. Admission to the program requires filing of a formal application to the department including documentation of related educational and work experience, and university transcripts.

Requirements for the Certificate (19-20 units)

Prerequisites Required

HS 471	General Principles of Environmental Health (4)
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Required Core Courses (16 units)

HS 420	Principles and Philosophy of Public Health (4)
HS 421	Environmental Health Regulations (4)
HS 423	Water Supply and Sewage Disposal (4)
HS 425	Principles and Practices of the Environmental Health Specialist (4)

Electives (4 units)

Minimum of one course

HS 432	Theory and Principles of Industrial Hygiene (4)
HS 483	Hazardous Waste Management Operations and Emergency Response (4)

List of Courses - Undergraduate Level

Courses in Health Science (HS)

Lower Division Courses

150 Health Connections for Life (4)

Current health and safety issues with an emphasis on disease prevention and wellness by evaluating current health knowledge and skills that can be incorporated into one's daily living. **GE E**

200 Introduction to Health Careers (4)

Overview of health care careers in the United States with special emphasis on occupations in the fields of community/environmental health and occupational health/safety.

201 Medical Emergencies Management (3)

Principles and techniques for giving immediate and temporary treatment in emergency situations; includes first aid and personal safety, community CPR, legal and safety aspects of medical aid and American Red Cross certification.

Upper Division Courses

Upper division standing is prerequisite to enrollment in all 300- and 400-level HS courses.

308 Psychophysiology of Substance Abuse and Violence (4) (also listed as NURS 308)

Prerequisites: Completion of Basic Subjects Block A and one course from Block B. Physiological effects of abused substances; examination of connection between substance abuse and violent behavior. **GE Theme B**

311 Technical Writing for Health Sciences (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Writing techniques emphasizing skills required in the preparation of program and grant proposals, methods of data collection and observation, and production of technical reports and communications.

350 Health Maintenance Problems (3)

Prerequisite: GE biological science requirement. Beneficial and detrimental factors of environment and their effect on the body and maintenance of health.

360 Selecting Health and Medical Services and Products (3)

Consumer health, evaluation of health and accident insurance, quackery and fraudulent health practices, food and drug controls.

370 Environmental Racism (4)

Prerequisites: Completion of the Basic Subjects (Block A) and one course from Block B. Use of epidemiology in environmental health. Morbidity and mortality in communities of color and lower economic status due to disproportionate distribution of environmental contaminants. **GE Theme H**

400 Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser:

410 Theory and Principles of Public Health (4)

Prerequisites: HS 150, 311. Theory, history and scientific basis of public health; examination of its interdisciplinary nature; discussion of public health issues, principles and practices.

412 Introduction to Epidemiology (4) (also listed as MICR 412)

Prerequisites: MICR 200AB or 201 and 202. Study of disease and injury in human population, including general review of epidemiologic methods. Focus on complex relationship between workers and work environment.

413 Health Communication (4)

Prerequisite: HS 311. Principles of planning and development of health communication programs in community health; strategies to develop activities for effective communication of health information for the general public, patients and allied health practitioners.

420 Foundations of Public Health (4.5)

Prerequisite: HS 471 or 472 or equivalent. Origins, historical evolution and meaning of public health; implications for the 21st century.

421 Environmental Health Regulations (4)

Prerequisite: HS 420. Educational and legal aspects of interaction of people with the environment; legal guide for practitioners of environmental health programs.

423 Water Supply and Sewage Disposal (4)

Prerequisite: HS 420. Management of water resources on earth, waste and pollution, cost issues, treatment and disposal of wastewater; related health concerns.

425 Principles and Practices of the Environmental Health Specialist (4)

Prerequisites: HS 421,423. Examination of responsibilities of environmental health specialists, community awareness; environment health education; administrative roles and enforcement of public health laws.

430 Occupational Health and Safety Programs (4)

Prerequisite: HS/MICR 412. Analysis of safety and health programs, including industrial hazards, evaluation, methodologies, typical safety problems, safety program components, job safety analysis and professional resources.

431 Community, Environmental Safety and Public Health Law (4)

Prerequisite: HS/MICR 412. Examination of federal, state and local laws governing public health, environmental health and occupational safety; overview of OSHA, CALOSHA, EPA, CALEPA regulations, enforcement procedures, appeal process; review of selected cases.

432 Theory and Principles of Industrial Hygiene (4)

Principles and practices of industrial hygiene; consideration of selected substances, processes, and controls; uses and calibration of primary instruments.

433 Material and Mechanical Hazards (4)

Prerequisite: HS 430. Identification and evaluation of material and mechanical hazards within the workplace; effective methods for controlling and eliminating hazardous work environments.

434 Process Safety Management (4)

Prerequisite: HS 430. Physical and process hazards in industrial settings; application of process safety management; review of applicable codes, standards and controls; evaluation of selected cases.

437 Loss Control Principles (4)

Prerequisite: HS 471. Historical development of quality assurance regulations including accreditation, credentials, licenses, regulations, and health education evaluation; emphasis on current regulations including audits, utilization reviews, professional standards, and continuing education in relation to health care delivery programs.

439 Incident Investigation and Analysis (4)

Prerequisite: HS 430. Analysis of components of incident investigation of industry violations of safety standards; relationship of causal factors and management system deficiencies.

440 Health Care Delivery System (4)

U.S. health care delivery system and its relationship to health science professions using a systems model; input, throughout, and output issues identified and explored.

445 Health Promotion (4)

Prerequisite: SOC 201. Foundations of health promotion and health promotion program content including behavior modification; development and implementation for use in corporate medical care and community settings.

455 Sex Information for Health Education (3)

Advanced sex information and education, physiological individuality and response, contraceptives and their health effects, selection and application of content in teaching sex education.

456 Health Studies on Alcohol, Narcotics, Nutrition, and Tobacco (4)

Scientific data on effects of tobacco, alcohol, narcotics, nutrition, and dangerous drugs on health. Current problems relating to control of illegal substances. *Fulfills teacher certification requirement in California.*

462 Chronic and Degenerative Disorders (3)

Prerequisites: HS 350, BIOL 200AB. Etiology and prognosis of degenerating tissue and their effects on health; new developments and research.

463 International Health (4)

Prerequisite: HS 410. Review and analysis of historical and modern efforts to solve health problems; survey of global health problems; analysis of the role of international health agencies.

464 Community Health Care Programs (4)

Prerequisite: HS 410. Analysis and review of community health programs and organizations; their structure, function and funding sources developed by professional and voluntary health agencies to address expanding community health needs.

467 Problem Drinking and Alcoholism (3)

Prerequisite: GE biological science requirement. Multidisciplinary study of problems of alcohol and alcoholism in society.

468 Problems in Controlled Substances (3)

Prerequisite: GE biological science requirement. Concepts of drug addiction; problems in education, prevention, and treatment.

470 Public Health Administration (4)

Prerequisite: HS 464. Fundamental and historical aspects of public health administration including development of public health in U.S., policies and procedures for disease control, present and future trends in public health.

471 General Principles of Environmental Health (4)

Prerequisite: ENGL 306. General scope of disciplines within environmental health field; routes of entry into those disciplines.

472 Data Analysis for Health Science (4)

Prerequisite: MATH 100 or 102. Techniques and methods for health science data analysis including basic statistical techniques; methods of deriving morbidity and mortality rates, life tables, and risk assessment.

475 Proseminar: Current Issues in Health (4)

Prerequisites: HS 150, 311. Examination of current issues and trends in community health; analysis of implications in education and service delivery; development of problem solving techniques.

476 Quality Assurance in Health Programs (4)

Historical development of quality assurance regulations including accreditation, credentials, licenses, regulations, and health education evaluation; emphasis on current regulations including audits, utilization reviews, professional standards, and continuing education in relation to health care delivery programs.

478 Ergonomics and Human Factors (4)

Prerequisite: HS 431. Effect of ergonomics on human factors in the workplace; correct design of workstations, hand tools, machine controls and material handling; application of research, training, motivation and medical support.

479 Program Planning and Evaluation (4)

Prerequisites: HS 472, 464. Concepts, skills and competencies required for program planning in community health; theories and techniques for evaluation of health education and health promotion programs.

481 Occupational and Industrial Toxicology (4)

Prerequisites: CHEM 101 or 151; CHEM 152, PHYS 101, BIOL 101. Principles, elements, methods and approaches of toxicology. Study of toxic agents occurring as trace contaminants in occupational and industrial setting. Focus on the major systemic site of actions by toxic agents.

483 Hazardous Waste Management Operations and Emergency Response (4)

Prerequisite: HS 471. Principles and practices of management of hazardous materials and hazardous waste, with emphasis on emergency planning and response.

484 Implementation of Occupational Safety and Health Programs (4)

Prerequisite: HS 430. Analysis and evaluation of successful health and safety programs; management involvement in planning and designing specific programs for implementation in a work site; strategies for employee motivation and participation.

489 Instrumental Methods in Environmental Sciences (3)

Prerequisite or corequisite: HS 481 or equivalent. Laboratory techniques and instrumentation used in preparation and analysis of environmental and occupational samples. Lecture 1 hour, laboratory demonstration 6 hours.

490 Administration of School Health Programs (3)

Prerequisite: HS 410. Principles and practices of supervision and administration in school health programs.

491 Special Studies in Health and Safety (1-4)

Prerequisite: Senior or graduate standing. Intensive study of an area of health or safety; specific area announced in *Schedule of Classes*. May be repeated to maximum of 16 units as subject matter changes.

496 Community and Occupational Health Internship (1–8)

Prerequisite: Consent of student's adviser. Monitored work-learn program under faculty and field preceptor's guidance in approved agencies. Includes individual progress conferences with preceptor and faculty. May be repeated to maximum of 18 units. Graded CR/NC.

499 Undergraduate Directed Study (1–4)

Prerequisites: For health studies, BIOL 200AB; for both health and safety studies, instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and a final report submitted. May be repeated to maximum of 6 units.

Courses in Nutritional Science (NTRS)

Lower Division Courses

210 Foundations of Food (4)

Introduction to foods as a profession. Principles and procedures of food preparation including selection, storage, food sanitation, product evaluation, and meal management. Lecture 2 hours, laboratory 5 hours. **CAN HEC 8**

250 Human Nutrition (4)

Nutrition and its relation to health, behavior, growth, development, and aging. No credit toward nursing or science majors of BA major or credential in home economics. **CAN HEC 2**

Upper Division Courses

300 Physiological and Nutritional Bases of Wellness (4) (also listed as KPE 300)

Prerequisite: Completion of Block B of the general education program. Physiological and nutritional bases of health and wellness; body energy, nutrients, diet modification, weight control, stress management and healthful lifestyles based on exercise and nutrition.

311 Science of Nutrition (1)

Prerequisites: CHEM 152, NTRS 250. Scientific principles of human nutrition.

312 Cultural Cuisine (4)

Prerequisite: NTRS 210. Cultural food patterns represented regionally, nationally and internationally; food choices, typical dishes, menus, nutritional aspects, purchasing, preparation techniques, equipment, and significance in cultural settings. Lecture 3 hours, laboratory 2 hours.

314 Preserving Food at Home (2)

Home food preservation techniques; drying, canning, freezing, preserving, and pickling; causes of food spoilage, potential problems of toxicity and safety factors; nutritional content, cost factors, storage, and use. Meets 4 hours weekly.

315 Communication Skills in Dietetics (3)

Prerequisites: NTRS 210, 317; PSY 150; SPCH 150; admission to the Coordinated Dietetics Program (CDP). Basic communication skills needed by dietitian; sociopsychological aspects of nutritional care in outpatient or clinical setting. Lecture 1 hour, laboratory 6 hours.

317 Fundamentals of Human Nutrition (3)

Prerequisite: CHEM 152. Scientific role of nutrients in the body and in development, growth, and maturation.

351 Adult Nutrition (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Nutritional needs and common diseases afflicting adults; promotion of adult health by nutritional intervention. **GE Theme F**

400 Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: NTRS 419ABC, 419S, 479

410 Experimental Foods (4)

Prerequisites: NTRS 210, CHEM 152. Application of scientific principles to experimental methods in food preparation and recipe analysis. Lecture 2 hours, laboratory 6 hours.

411 Evaluation of Current Nutrition Concepts (3)

Prerequisite: NTRS 317. Interpretation of nutrition research findings and consideration of possible applications for individuals and population groups.

412 Advanced Foods (4)

Prerequisites: NTRS 210, 311. Scientific principles and procedures concerned with food selection and preparation; experiences designed to broaden background in complex preparations; recipe analysis and development, and some analysis of foreign foods. Lecture 2 hours, laboratory 6 hours.

413 Maternal and Child Nutrition (4)

Prerequisite: NTRS 317. Nutritional requirements of pregnant women and of children; nutrition-related health considerations.

414AB Institutional Food Service (4, 4)

Prerequisites: NTRS 210; 250 or 317; MICR 151. Experience in organization and management of quantity food service, including menu writing, quantity food preparation, equipment selection, and institutional kitchen design.

414A:Lecture 3 hours, laboratory 3 hours.

414B:Lecture 2 hours, laboratory 6 hours.

415AB Medical Nutrition Therapy (4, 4)

Prerequisites: (for 415A) NTRS 210, 417B; (for 415B) NTRS 415A. Nutritional intervention in disease processes; special emphasis on interrelationships between pathophysiology of disease processes and dietary modifications. Lecture 3 hours, laboratory 3 hours.

416 Child Nutrition (4)

Prerequisite: CHDV 200. Nutritional needs of pregnant and lactating women and of children from conception through adolescence; strategies for nutrition education in early childhood.

417AB Advanced Nutrition I, II (3, 3)

Prerequisites: (for 417A) NTRS 317, BIOL 200B, CHEM 353, MICR 151; (for 417B) NTRS 417A. Scientific bases for nutritional needs of humans; factors involved in meeting such needs in individuals and population groups; metabolic factors in nutrition.

417L Nutritional Assessment Laboratory (1)

Prerequisites: NTRS 317, BIOL 200B, CHEM 353, MICR 151, each with a minimum C grade. Laboratory experience in nutritional assessment using anthropometric, dietary, biochemical, and clinical tests and criteria.

418 Community Nutrition (4)

Prerequisite: NTRS 417B. Community nutrition problems, agencies, and programs. Lecture 3 hours, activity 2 hours.

419ABC Supervised Practice in Dietetics (8-8-8)

Prerequisites: NTRS 415B, 434, 479; corequisite: NTRS 419S. Intensive learning experiences in food service administration and nutritional intervention in hospitals, public health facilities, or other health care facilities. Supervised experience 24 hours weekly; concurrent weekly professional colloquium required.

419S Seminar: Dietetics (2)

Prerequisites: NTRS 415B, 434, 479; corequisite: NTRS 419A, 419B, or 419C. Selected professional topics in food service administration and nutritional care.

434 Management Principles in Dietetics (5)

Prerequisite: NTRS 414AB. Principles of management for quality food service systems. Lecture 3 hours, laboratory 6 hours.

450N Nutrition and Well Being (4)

Prerequisite: BIOL 165 or CHEM 158. Nutrition in the life cycle as related to maturation, aging, well being, emphasizing the individual as an integrated being.

451 Nutrition and Aging (4)

Prerequisite: BIOL 165 or CHEM 158. Relationship of nutrition to aging and diseases common among elderly; nutritional needs and problems of elderly.

452 Nutrition for Educators (2)

Prerequisite: Admission to teaching credential program. Role of nutrition in physiologic and cognitive development and common nutrition problems of school children.

454L,P Selected Topics in Nutritional Science (1-6)

Current topics of special interest in Nutritional Science as announced in *Schedule of Classes*. May be repeated for 16 units of credit as subject matter changes.

455 Nutrition Computing Skills (3)

Prerequisite: NTRS 317. Identification, implementation, and evaluation of computerized nutritional analysis procedures; lectures about computer applications in nutrition and dietetics, software demonstrations, software reviews, hands-on practice with state-of-the-art software and computers.

458 Physical Aspects of Aging (4)**(also listed as KPE 458)**

Aging process, fitness, and nutrition; influences on wellness, life styles, and recuperation; strategies for optimizing physical quality of life for elderly.

471 Professional Writing in Nutritional Science (4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), SPCH 150, and a minimum of 20 units in NTRS. Aspects of written communication specific to nutritional science in education, community service, and business.

479 Professional Interactions and Writing Skills (4)

Prerequisites: NTRS 315, 415B; PSY 150, SPCH 150. Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Role of the dietitian/nutritionist as an educator on the health care team, with emphasis on the development of written and oral communication skills. Lecture 3 hours, activity 2 hours. Concurrent weekly professional colloquium required.

495 Field Work in Nutritional Science (2-4)

Prerequisites: Thirty-five NTRS units, of which at least 15 must be upper division; departmental approval. Supervised experience utilizing professional preparation in field setting. Graded CR/NC

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated for 12 units of credit.

Graduate Level Courses

Graduate Courses in Health Science (HS)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser:

Classified graduate standing is required for admission to all 500-level courses.

521 Administrative Issues in Environmental Health (4.5)

Prerequisite: HS 420. Current issues in environmental policy research and practice; strategies and techniques used in management of environmental health programs; safety evaluations, regulatory processes, institutional arrangements, and organization responses.

526 Seminar in Health Effects of Environmental Contaminants (3)

Discussions and surveys on current critical issues in environmental health sciences.

530 Research Design in Health Science (4)

Prerequisite: A four-unit, upper division statistics course. Examination of research methodology within a conceptual framework of health science; utilization of the tools of research.

540 Analysis of Health Care Delivery Systems (4)

National and international health care delivery systems, their historical development, objectives, designs, systems components; personnel, facilities, financing, and utilization problems; future patterns in health care delivery systems. Field visits may be required.

550 Health and Safety Risk Management (4)

Component analysis of health facility and industrial risk management programs; evaluation and implementation techniques with review strategies. Data and functions for programs as integral part of quality assurance system.

560 Administration of Health and Safety Education (3)

Organization, content, and evaluation of health and safety education programs; administration and supervision in official and non-official agencies.

570 Health Appraisal and Guidance (4)

Developing skills in recognizing health problems; choosing appropriate procedures for screening programs; implementation of appraisal findings through appropriate health guidance techniques.

Graduate Courses in Nutritional Science (NTRS)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: NTRS 419ABC, 419S, 479

Classified graduate standing is required for admission to 500-level courses.

511 Research Methodology in Nutritional Science (4)

Prerequisites: NTRS 410, 415AB, 417AL. Research problems in nutritional science. Lecture 2 hours, laboratory 6 hours.

513 Advanced Problems in Nutritional Science (4)

Prerequisites: NTRS 410, 415AB, 417ABL. Contemporary problems in nutritional science.

519 Seminar: Nutritional Science (3)

Prerequisites: NTRS 530, 8 units of 400 or 500-level courses in nutrition, food, dietetics. Selected topics in nutrition, food, and dietetics.

580 Seminar: Health Science Research (4)

Prerequisite: HS 591. Analysis of and research in health science.

581 Environmental Toxicology (4.5)

Prerequisites: HS 481, 489. Study of toxic agents occurring as trace contaminants in the environment. Evaluation and control of chemical hazards in air, food, water and soil. Biological mechanisms of toxicity.

591 Advances in Health Education (3)

Prerequisite: HS 530. Analysis of selected contemporary problems in health science.

595 Field Study in Health Science (1-6)

Prerequisites: Departmental approval, agency acceptance. Supervised individual field experience in an applied area of health or safety. May be repeated to maximum of 8 units. Graded CR/NC.

597 Graduate Research (1-6)

Prerequisites: Instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated to maximum of 6 units. Graded CR/NC.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 6 units.

599 Thesis or Project (1-6)

Prerequisites: Instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 6 units. Graded CR/NC.

530 Research Concepts in Nutritional Science (4)

Prerequisite: A course in statistics. Examination of research methodology within a conceptual framework of Nutritional Science, utilization of the tools of research; review and critique of research reports; development of a research proposal and a pilot project.

595 Fieldwork in Nutritional Science (2-4)

Prerequisites: Departmental approval; agency/business acceptance, and 23 units of upper division or graduate level units. Supervised experience at supervisory level. Four hours per week required for each unit. May be repeated to a maximum of 6 units. Combined units of 495, 595, 597, 598, and 599 may not exceed 15 units. Graded CR/NC.

597 Graduate Research (1-4)

Prerequisites: NTRS 530, instructor consent to act as sponsor, department approval of project before registration. Independent research under faculty guidance. May be repeated to maximum of 8 units; combined 587/598 units may not exceed 12 units; combined 595, 597, 598, 599 units may not exceed 15 units. Graded *CR/NC*.

598 Graduate Directed Study (1-4)

Prerequisite: NTRS 597, instructor consent to act as sponsor; department approval of topic prior to registration. Independent directed study of advanced topics. May be repeated to maximum of 8 units; combined 597 and 598 units may not exceed 12 units; combined 595, 597, 598, and 599 may not exceed 15 units.

599 Thesis or Project (1-6)

Prerequisites: NTRS 530, seminar in thesis/project research area, 3 units of 597, advancement to candidacy, minimum 3.0 GPA, instructor consent to act as sponsor, department approval of topic before registration. Independent research resulting in thesis or project; oral thesis defense required. May be repeated to maximum of 6 units; combined 595, 597, 598, 599 units may not exceed 15. Graded *CR/NC*.

Department of

History

School of Natural and Social Sciences

DEPARTMENT OFFICE

King Hall C4066

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Website: <http://www.calstatela.edu/academic/history/>

The Department of History provides opportunities to study the development and interaction of the world's cultures. In addition to a broad curriculum in local, national, and world history, the department offers a wide variety of special topics courses. The program thus contributes to the attainment of intellectual and cultural objectives of a liberal education appropriate to careers in law, journalism, business, government service, librarianship, and teaching, or to advanced study.

The department offers the Bachelor of Arts and Master of Arts degrees in History and a minor in History for students majoring in other areas. The department also participates in the interdisciplinary Bachelor of Arts degree program in Social Science. This program is described under the area of Social Science.

The Department of History administers a minor in Religious Studies designed to explore the forms and traditions of religion that have appeared in human culture.

The Faculty

Professors: John M. Allswang, Francisco E. Balderrama, Stanley M. Burstein, Daniel Crecelius (*Chair*), Yuen-Sang (Philip) Leung, Martin J. Schiesl.

Associate Professors: Carole Srole, Lillian Taiz, Lamont Yeakey.

Assistant Professors: Choi Chatterjee, Andrew Frank, Philip K. Goff, Cheryl Koos, Enrique C. Ochoa, Peter H. Sigal, B. Lael Sorensen, Ping Yao.

Emeriti: Richard Dean Burns, Louis C. De Armond, Donald O. Dewey, Eugene R. Fingerhut, Edward O. Guerrant, Timothy Fox Harding, Udo Heyn, Milton W. Meyer, Earl H. Phillips, Arnold Pincus, Kenneth J. Pratt, Neil Rabitoy, Arthur L. Smith, Jr.

Undergraduate Programs

Bachelor of Arts Degree

The Bachelor of Arts degree program in History is designed to provide an understanding of societal development in all aspects of experience and environment and of the relevance of the past to the present. The program permits pursuit of a wide range of interests within the purview of historical methodology. Students should confer in advance with a history adviser to select the courses and program appropriate to their goals.

Requirements for the Major (75-80 units)

The major itself requires 80 units, including a required core of 20 lower division and 44 upper division units plus 16 units of electives. Students seeking to combine the study of History with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below. This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

Foreign Language Competence

History majors are urged to develop competence in at least one foreign language.

Lower Division Required Courses (20 units)

HIST 110ABC World Civilization I-III (4, 4, 4)
HIST 202AB United States Civilization (4, 4)

Upper Division Required Courses (44 units)

Required Courses (8 units)

HIST 388 Historiography (4)
HIST 390 Historical Research and Writing (4)

Select 8 units each from groups A, B, and C for a total of 24 units:

Group A Western Civilization/Europe (8 units)

Ancient: HIST 410-413
Europe (*Chronological*): HIST 421-430
Europe (*Topical*): HIST 431-447

Group B The United States (8 units)

U.S. (*Chronological*): 470-475
U.S. (*Topical*): 455-458, 476-489

Group C The Non-Western World (8 units)

Africa: 414AB-415
Asia: 494ABC, 495AB, 496
Latin America: 459-469
Middle East: 419, 420, 491, 492

Special Studies (12 units)

Select *three* HIST 450 courses, one appropriate to each group above (A, B, C).

Electives (16 units)

Select any 300 or 400 level courses in history. No more than 8 units may be taken at the 300 level for the major. With prior departmental approval, a maximum of 8 units may be taken in fields outside history.

Multiple Subject Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the ***Undergraduate Studies: General Information*** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the ***Academic Programs: School-based and University-wide*** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106–111 units)

Refer to the ***Undergraduate Studies: General Information*** chapter of this catalog for the list of courses in this common core.

Major Courses (20 units)

Required Courses (8 units)

HIST 388 Historiography (4)
HIST 390 Introduction to History (4)

History Group A, B, C (12 units)

Select one course each from groups A, B, and C, excluding courses used to meet depth requirements.

Group A: Western Civilization

Select 4 units from the following:

HIST 311, 380, 410, 411, 412A, 412B, 413, 421, 422, 444A

Group B: United States

Select 4 units from following:

HIST 470, 471, 472, 476, 479, 480, 481, 483, 485, 488, 489

Group C: The Non-Western World

Select 4 units from following:

HIST 414A, 419, 461, 494A

Depth Area (20 units)

Select one of the two depth areas listed below.

American Civilization (Foundations) (20 units)

Special Studies in History HIST 450 (4)

Native Americans: ANTH 406 **or** HIST 481 (4) (*select one*)

Early America: HIST 470 **or** 471 (4) (*select one*)

California: HIST 488 **or** 489 (4) (*select one*)

Topics in U.S. History: HIST 477, 480, **or** 485 (4) (*select one*)

Ancient World (20 units)

Archaeology of the Old World ANTH 425 (4)

Ancient Near East: 4000-323 B.C. HIST 410 (4)

Special Studies in History HIST 450 (4)

Classical World: HIST 411, 412A, 412B, 413 (4) (*select one*)

Non-Western World HIST 414A, 490A, 494A (4) (*select one*)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional

education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in History

The minor in History is available for students majoring in other fields. The 36-unit program includes a sequence of courses with the same general objectives as the History major, and may be of particular value to students majoring in business, engineering, the sciences, and fine or applied arts.

Requirements for the Minor (36 units)

Lower Division Required Courses (20 units)

HIST 110ABC, 202AB

Upper Division Required Courses (12 units)

Select *one* course each from groups A, B, and C listed under required upper division courses in the Bachelor of Arts degree in History.

Electives (4 units)

Select any 400-level course in history.

Minor in Religious Studies

To complete the minor in Religious Studies, students must complete a total of 24 units from the courses listed below, with adviser approval. There is one core course (4 units); electives, required in Religious Studies and other departments, constitute the remainder of the program (20 units). Prior approval must be obtained for enrollment in special topics and directed study courses. Each student will submit a study program for approval to the director of the Religious Studies program. A maximum of eight units from a student's major may be applied on the minor.

Requirements for the Minor (24 units)

Core Requirement (4 units)

RELS/PHIL 200 Introduction to Comparative Religions (4)

Electives (20 units)

Required in Religious Studies (12-20 units).

Students must complete at least 12 units from these courses.

RELS 300 Judaism, Christianity, Islam (4)

RELS 325 Themes of Adult Life in the World's Religions (4)

RELS 335 Gender in the Diversity of World Religions (4)

RELS 345 Health and Wellness in World Religions (4)

RELS 380 Emotions in Religion (4)

ART/RELS 450 Art, Religion, and Technology (4)

RELS 410 Asian Religions (4)

RELS 454 Special Topics in Religious Studies (4)

RELS/HIST 455 American Religious History (4)

RELS 461 Religion and the Nuclear Age (4)

RELS 499 Undergraduate Directed Study (4)

You may also select courses from the following list with adviser approval, for up to 8 units.

ANTH 437, 454L,P

ART 450, 454, 476, 499*

ENGL 258, 482, 491*, 499*,

SOC 401, 419, 423, 450*, 451*, 457A, 494A, 495A, 499*

JAPN 310

PHIL 354*, 415, 418, 435, 436, 437, 499*

*When applicable

Graduate and Postbaccalaureate Programs

Master of Arts Degree

The Master of Arts degree in History is designed for the attainment of a liberal education appropriate to careers in such professions as law, journalism, business, government service, and librarianship, as well as preparation for teaching and further graduate study.

The program requires intensive study involving courses, seminars, and directed reading in preparation for comprehensive examinations and an optional thesis. Students should obtain reading lists well before the examination from the examining faculty member in each field.

Admission to the Program

Applicants with History Major Baccalaureates

- A. Must have attained a grade point average of at least 3.0 (A=4.0) in the last 90 quarter units of undergraduate work attempted, or satisfactory completion of probationary units.
- B. Must have been in good standing in the last college or university attempted.
- C. Must show completion of an accredited history program
- D. Must give evidence of passing HIST 388 and HIST 390, or their equivalent in another accredited school.
- E. Must meet all university and school requirements (including GWAR).

Applicants with a baccalaureate in a major other than history:

- A. Must have attained a grade point average of at least 3.0 (A=4.0) in the last 90 quarter units of undergraduate work attempted, or satisfactory completion of probationary units.
- B. Must have been in good standing in the last college or university attempted.
- C. Must complete HIST 388, HIST 390 plus 20-28 units of approved upper-division history courses with a minimum B (3.0) average.
- D. Must meet all university and school requirements (including GWAR).

Requirements for the Degree (48 units)

Overall Requirements:

48 units are required, with at least 28 in 500-level courses.

Required Courses (28 units)

Select seven 500-level history courses, with adviser approval, for a total of 28 units. HIST 501 and 595 (twice) are required of all students, and are included in the seven required 500-level history courses.

Electives (20 units)

Select 400 or 500-level courses in history with adviser approval. Courses outside history may be substituted to maximum of 8 units, with adviser approval.

Research Skills and Comprehensive Examinations

A. Research Skills

Candidates must demonstrate a reading comprehension in one foreign language or competence in computer applications and statistics or theory that may be applied to history before they may attempt the history comprehensive examinations. They must demonstrate this competence within 7 years prior to completion of the degree in one of the following ways.

- Passing a foreign language reading examination (FL 901) in a language appropriate to chosen fields of study, or by completing one academic year's study of an appropriate foreign language with a grade of *B* or better in each course.
- Completing 12 units in statistics and computer courses (minimum 4 units in each area), as approved by the department adviser, with a minimum *B* grade in each course.
- Completing one year's study of theory which, with adviser approval, may be applied to the study of history.

B. Comprehensive Examinations (Required, 0 units)

Students must successfully complete the comprehensive examinations.

Comprehensive examinations must be passed in three fields chosen from two or more areas listed below. Flexibility for options can be arranged. Students may register for HIST 596 and take the comprehensive examinations only after they complete all course work on their program.

Fields of Concentration:

Area One:

United States to 1876
United States since 1850

Area Two:

Antiquity
Medieval and early modern Europe
Modern: 1789–present

Area Three:

Middle East
Asia
Africa
Early Latin America
National Latin America

Thesis (Optional, 8 units)

After successfully completing 28 units, students who meet departmental requirements may petition to write a thesis. Thesis will substitute 8 units of 400-level electives.

List of Courses (HIST) Undergraduate Level

Courses in History (HIST)

Lower Division Courses

110ABC World Civilization I, II, III (4, 4, 4)

110A Comparative examination of world civilizations from 4500 BCE to 500 CE. **GE D**

110B Comparative examination of world civilizations from 500 to 1700 CE. **GE D**

110C Comparative examination of world civilizations from 1700 CE to the present. **GE D**

HIST 110ABC = CAN HIST SEQ A

150 Asian-American History (4)

Survey of the Asian experience in America from 1850 to the present. Emphasis on the historical experience of Chinese, Japanese, Filipinos, Korean, other Asian, and Pacific Islander immigrant groups. **GE D**

202AB United States Civilization (4,4)

202A Political, economic, social and cultural development of U.S. from earliest settlement through civil war.

HIST 202A = CAN HIST 8 **GE AM**

202B Political, economic, social, and cultural development of U.S. from civil war to the present.

HIST 202B = CAN HIST 10 **GE AM**

Upper Division Courses

Upper division standing is prerequisite to all 300 and 400-level history courses, unless otherwise noted.

311 Classical Civilization and the Modern World (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. The Classical Tradition and its legacy. Origin of the Classical Tradition, its social, political, and cultural manifestations, significance in the contemporary modern world.

350 Evolution and the Modern World (4)

(also listed as ART 350, ENGL 350, and PHIL 350)

Prerequisite: GE humanities requirement. History of the idea of evolution from antiquity to the present and its impact on the culture of the 20th century.

351 Beyond Conflict, Violence, and War (4)

(Course also listed as POLS 351)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Nature, functions, and interrelationship of conflict, violence, and war; strategies of conflict resolution and peace. Examined in a global setting through theory and case studies. **GE Theme B**

352 Civil Rights in the United States (4)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block D.

The origins, development, achievements, and legacy of the civil rights movement are treated in this course. Consideration is given to social, intellectual, economic, and political aspects affecting the entire nation. **GE Theme H**

356 History of Emotions (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D.

Historical changes in emotional expression, meaning, and sensibilities, as constructed by gender, ethnicity, race, class, nationality, and religion. **GE Theme E**

357 Gender in History (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Relationships between historical conceptions of gender (both womanhood and manhood) and race, ethnicity, class, religious, sexual identity, and nationality.

GE Theme C

358 Environmental Policy and Politics (4)

(also listed as POLS 358)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Global environmental problems, United Nations programs, U.S. environmental movement, governmental policies, on the environment, politics, and the policy formation process. The role of government and policy in environmental sustainability. **GE Theme G**

360 Revolution and Society in Developing Countries (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Comparative and historical examinations of the origins and outcomes of revolution in developing countries. **GE Theme A**

370 Computers in Historical Research (4)

Prerequisite: Basic Computer Skills Recommended.

An introduction to the use of computers for historical study and research. Hardware configurations, software applications, data bases, telecommunications. Hands-on training in computer lab.

380 Ancient and Modern Science (4)

(also listed as PHIL 380 and CHEM 380N)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block B. Systematic analysis of ancient scientific thought as science and its relationship to modern science.

GE Theme I

383 Rise of Urban America (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Development of the American city in a global context from mid-nineteenth century to present. Examines urban growth, structure of urban institutions, and the impact of industrialism upon metropolitan society.

GE Theme D

388 Historiography (4)

Prerequisites: 12 units of history course work and satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). History of historical thought from ancient to contemporary historians. Special emphasis on modern historiography. Practical experience writing historiographical essays.

390 Historical Research and Writing (4)

Prerequisite: HIST 388. Introduction to historical research and writing; ideas, methods, and practical experience in investigating historical problems

400-level Courses

All 400-level courses may be applied toward master's degree requirements, except the following, subject to limits established by the department and approval of the graduate adviser: HIST 499

401 Science, Religion, and Culture in World History (4)

Prerequisites: GE natural and social science requirements; RELS/PHIL 200. Interaction of science, religion, and culture in several great civilizations during specific periods of history.

410 Ancient Near East: 4000–323 B.C. (4)

Extensive study of earliest civilizations—Egyptian, Mesopotamian, Syrian, Persian, and Hebrew—and their historical legacy to Western world.

411 History of Ancient Greece (4)

Political and cultural study of Ancient Greece from Minoan-Mycenaean period to end of 5th century.

412A Early Rome, The Republic (4)

Internal and external development of the Roman republic from 8th Century B.C. to the death of Julius Caesar, 44 B.C.

412B The Roman Empire (4)

Roman history from the death of Julius Caesar, 44 B.C., to the fall of the city, 410 A.D.

413 Greek History: The Alexandrian Age (4)

Political, social, and religious developments from conquests of Alexander to rule of Islam; a history of Hellenistic, Roman, and early Byzantine rule in Near East.

414A Traditional Sub-Saharan Africa (4)

African continent south of the Sahara, earliest times to latter half of 18th century, with emphasis on political development.

414B Modern Sub-Saharan Africa (4)

Partition of Africa in 19th century, systems of European administration, reaction to colonial rule, birth of nationalism; social, economic, and political changes to 1945.

415 Contemporary Sub-Saharan Africa (4)

Post-World War II independence revolutions in black Africa; resistance to change in southern Africa; contemporary political, social, and economic problems of Africa south of the Sahara.

419 Classical Age of Islamic Civilization, 600–1258 (4)

Rise of Islam, the Caliphate, the Crusades, the Turkish and Mongol invasions.

420 Great Medieval Islamic Empires, 1258–1798 (4)

Dissolution of Arab Empire; Mamluk rule in Egypt; Il-Khanid, Timurid and Safavid Persia; rise of Ottoman Empire; Middle East culture and society on the eve of Westernization.

421 The Early Middle Ages (4)

Europe from the 3RD to the 10TH centuries: Political, social, economic, religious and cultural developments.

422 The Later Middle Ages (4)

Europe from the 10TH to the 15TH centuries: Political, social, economic, religious and cultural developments.

423 Renaissance and Reformation (4)

Changes that shaped the course of early modern Europe to 1600, with emphasis on nature of period's leading phenomena, the Renaissance and the Reformation.

424 Seventeenth Century Europe (4)

Culmination of Wars of Religion, beginning of Age of Reason, and nature of absolutism in period from 1600 to 1715.

425 Eighteenth Century Europe (4)

The Ancien Regime and the Enlightenment to the French Revolution.

426 French Revolution and Napoleon (4)

History of Europe during period of French Revolution and Napoleon.

429 Europe: 1914 to Present (4)

Political, economic, cultural, and diplomatic history of Europe, World War I to present.

430 Europe: 1815–1914 (4)

European nationalism, industrial growth, imperialism, and the politics of power.

431 History of Modern Germany (4)

History of modern Germany, with emphasis upon 20th century.

437 Social History of Europe (4)

Changes in social institutions (family, church, polity), relationships (sex, class, race, ethnicity), and processes (mobility, control, disorder) from the Ancien Regime to present.

438 Economic History of Europe (4)

Europe's economic ideologies and institutions, with emphasis on economic problems, development, welfare, and reform, from the Industrial Revolution to present.

439 Intellectual History of Europe (4)

Thought, belief, and opinion in Europe, with emphasis on principal thinkers and ideas as they relate to contemporaneous historical values from the Enlightenment to present.

440 Early Modern England (4)

History of England from 14th century to 1688, with emphasis upon constitutional, social, political, and economic development.

441 British History from 1688 to 1865 (4)

Historical development of Britain from Glorious Revolution to death of Palmerston.

442 Great Britain since 1865 (4)

Historical development of Great Britain from 1865 to present.

443 The British Empire (4)

Political and economic development of British Empire since late 18th century, with major consideration to expansion of colonial empire and evolution of modern empire-commonwealth.

444A Spain and Portugal to 1700 (4)

Political and institutional development of Spain and Portugal from antiquity to War of Spanish Succession.

444B Spain and Portugal Since 1700 (4)

Political and institutional development of Spain and Portugal from 1700 to present.

445 Foundations of the Russian Empire (4)

Political, economic, social, and cultural history of Russia from earliest times to accession of Alexander I in 1801.

446 Imperial Russia: 1801–1917 (4)

History of Russia from accession of Alexander I to end of Romanov dynasty in 1917.

447 The Soviet Union (4)

Background and history of revolutions of 1917 and subsequent historical development of Soviet Union.

450 Special Studies in History (4)

Prerequisite: HIST 390. Different theme or episode in history examined thoroughly each quarter in the manner of an undergraduate seminar. Individual readings, written and oral reports, and discussion. May be repeated to a maximum of 20 units for credit as topic changes.

451 Special Lectures in History (2–4)

Lectures on special historical topics not regularly given by department. May be repeated for credit as topic changes.

453 Studies in War and Peace (4)

Selected topics in history of human conflict, from security and deterrence to arms control, disarmament, pacifism, and other alternatives to war. May be repeated for credit as topic changes.

**455 American Religious History (4)
(also listed as RELS 455)**

Principal religious figures, groups, issues, and movements in U.S. history, with an emphasis on their place in the development of American culture.

457A American Intellectual History to the Civil War (4)

Ideas, beliefs, and opinions in American history to 1865, with emphasis on principal thinkers and ideas as they relate to the development of American culture.

457B American Intellectual History Since the Civil War (4)

Ideas, beliefs, and opinions in American history since 1865, with emphasis on principal thinkers and ideas as they relate to the development of American culture.

459 Sexuality in the Americas (4)

A social and cultural history. Study of the construction of sexual desires, attitudes and behaviors in the Americas from pre-conquest times to the present.

461 Latin America: Colonial Period (4)

Prehistory of the Americas south of the U.S.; European background, period of conquest, and colonial development to time of wars for independence.

462 Latin America: 1810–1914 (4)

Struggle for independence and social, political, and economic development of Latin American nations during 19th and early 20th centuries.

463 Latin America: 1914 to Present (4)

Social, political, and economic development of Latin American nations since beginning of World War I.

464 Central America Since Independence (4)

Political, social, economic, and cultural developments in Central America from independence to the present.

465 Brazil (4)

Brazilian history from Portuguese occupation of eastern South America through colonial period, independent empire, and the republic to present time.

**466A Colonial Mexico (4)
(also listed as CHS 466A)**

Social, political, economic, and cultural history of Mexico from pre-Columbian times to 1810.

**466B Building the Mexican Nation (4)
(also listed as CHS 466B)**

Social, political, economic, and cultural history of Mexico 1810 to 1910.

466C The Mexican Revolution and its Legacy (4)

(also listed as CHS 466C)

Social, political, economic, and cultural history of Mexico from 1910 to the present.

**467 Modern Mexico and the Chicano People (4)
(also listed as CHS 467)**

Prerequisite: CHS 111. Recommended: CHS/HIST 466. History of modern Mexico and its impact upon the Chicano people from separation from Mexico in 1848 to the present.

469 Indigenous Peoples of Mexico, 1325-1910 (4)

Political, social, economic, and cultural history of indigenous peoples from all areas of colonial and post-colonial Mexico, with a focus on Nahua (Aztec) and Mayan histories.

470 The Colonial Heritage: The United States, 1607–1763 (4)

Transfer of Old World institutions to British North America. Development of colonial society to end of French and Indian War.

471 Era of Revolution: The United States, 1763–1815 (4)

Causes and nature of American Revolution and development of the new nation through end of War of 1812.

472 Democracy, Dissent, and Disunion: The United States, 1815–1877 (4)

Political democracy; nationalism and sectionalism; slavery and reform; the Civil War and Reconstruction.

473 The United States, 1877-1918 (4)

Industrialism and urbanization, international expansion, the Progressive Era and coming of World War I.

474 The United States, 1918–1952 (4)

The 1920's, Depression and New Deal, World War II, and the origins of the Cold War.

475 The United States, 1952 to Present (4)

Domestic changes and issues, and international relations of recent times.

476 Economic History of United States (4)

American economic development, industrialization, national legislation in industry and commerce.

477 United States Social History (4)

The social structure; social relations of American individuals, families, and groups; colonial period to the present.

478 History of United States International Relations (4)

International relations of the US with emphasis on the 20th century.

479 Constitutional History of United States (4)

U.S. Constitution and American constitutionalism from colonial times to present.

480 Ethnicity and Immigration in American History (4)

Role of national, racial, and religious minority groups, and of immigration, in American history.

481 Special Topics in the U.S. West (4)

Special topics lectures about history of the West; e.g., the Westward Movement, the urban West, Southwestern history, and women in the West. May be repeated for credit as topic changes.

482A American Popular Culture to 1900 (4)

Prerequisite: Upper division standing. Identity, commercial culture and representations of evil in American popular culture to 1900.

482B American Popular Culture from 1900 (4)

Prerequisite: Upper division standing. Identity, commercial culture, representations of evil in American popular culture from 1900.

484 Civil War and Reconstruction (4)

Forces that split the Union; slavery, war, and the position of blacks; Reconstruction and its failures.

485 U.S. Women to 1877 (4)

Social, intellectual, economic, and political experiences of U.S. women from pre-conquest to 1877.

486 U.S. Women, 1877 to the Present (4)

Social, intellectual, economic, and political experiences of U.S. women, 1877 to present.

487 History of U.S. Work and Working People (4)

Transformation of work and social and political relations of workers in the U.S. from 1600 to the present.

488 California (4)

Political, economic, and cultural history of California from Spanish times to present.

489 Los Angeles (4)

Development of Los Angeles and its metropolitan areas from pueblo times to present.

491 The Middle East and the West, 1768–1919 (4)

Cultural and political impact of West, dissolution of Ottoman Empire, reformist movements and nationalism in Middle East, birth of modern state system.

492 Nationalism, Revolution, and War in Middle East, 1919–Present (4)

Rise of modern independent states in Middle East; survey of political, social, and economic developments in Middle Eastern states, with particular emphasis on attempts to create stable democratic regimes.

494A Traditional China (4)

Chinese civilization from earliest times to 1500.

494B Modern China (4)

Social, political, and economic development of mainland China from 1500 to 1949.

494C People's Republic of China (4)

Political, economic, social, and foreign relations issues of Communist China since 1949.

495A Traditional Japan (4)

Japanese civilization from earliest times through traditional eras until 1868.

495B Modern Japan (4)

Social, political, and economic development of Japan since 1868.

496 History of Southeast Asia (4)

History and civilization of Southeast Asia with emphasis on political, social, and economic developments since 1800.

497 Editing and Publishing Perspectives (1-4)

Prerequisite: Consent of instructor. Techniques and practice in editing and producing a scholarly journal of research and review. May be repeated to a maximum of 6 units.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated to maximum of 8 units as topic changes.

**Courses in Religious Studies (RELS)
Lower Division Course****200 Introduction to Comparative Religions (4)
(also listed as PHIL 200)**

Methods and concepts in comparative religions; multidisciplinary approaches to the study of ancient and contemporary religious phenomena in literate and illiterate cultures. **GE C3**

Upper Division Courses**300 Judaism, Christianity, Islam (4)**

Origin and development of Judaism, Christianity, and Islam; comprehensive study of ideas, beliefs, and practices in the three religions.

325 Themes of Adult Life in the World's Religions (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C.

The role of major world religions in different stages of adult life of women and men in diverse racial ethnic groups and social classes. **GE Theme F**

335 Gender in the Diversity of World Religions (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Beliefs and practices of major world religions concerning gender roles, sexuality, and sexual orientation, and their manifestations in different social classes and racial and ethnic groups. **GE Theme C**

345 Health and Wellness in World Religions (4)

Prerequisite: RELS/PHIL 200. Impact of Eastern, Western, and traditional religions on health and wellness of their members and society.

380 Emotion in Religion (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Emotions in world religions; diversity of feeling and expression according to beliefs, ethics, rituals, social organization, gender, class, race, and ethnicity.

410 Asian Religions (4)

Prerequisite: RELS/PHIL 200. Comparative analysis of Asian religions; history, rituals, religious experiences, beliefs, ethics, religious institutions, and interrelationships with culture.

450 Art, Religion, and Technology (4)**(also listed as ART 450)**

Prerequisite: RELS/PHIL 200 or ART 101A, 101B, or 101C. Relations among art, religion, and technology in selected periods of history in major cultures of the world.

454 Special Topics in Religious Studies (4)

Topics of special interest as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

455 American Religious History (4)**(also listed as HIST 455)**

Principal religious figures, groups, issues and movements in U.S. history, with an emphasis on their place in the development of American culture.

461 Religion and the Nuclear Age (4)

Prerequisites: GE natural science requirement; RELS/PHIL 200. Implications and challenges of nuclear weapons, nuclear power, and modern concepts of physics for the religions of the world.

499 Undergraduate Directed Study (1–4)

Prerequisites: RELS/PHIL 200, instructor consent to act as sponsor. Project selected with instructor before registration; progress meetings held regularly; final report. May be repeated for credit with different topic.

Graduate Level Courses (HIST)

All 400-level courses may be applied toward master's degree requirements, except the following, subject to limits established by the department and approval of the graduate adviser: HIST 499.

Classified graduate standing is required for admission for all 500-level courses.

501 Introduction to Graduate Study in History (4)

Introduction to theoretical and historiographical issues relevant to graduate study in history.

519 Seminar: Ancient History (4)

Readings, discussion, and paper on topics in Greek or Roman history. May be repeated for credit.

520 Seminar: History of Middle Ages (4)

Readings, discussion, and paper on topics in the history of the Middle Ages. May be repeated for credit.

522 Seminar: Middle Eastern History (4)

Readings, discussion, and paper on topics in Middle Eastern history. May be repeated for credit.

532 Seminar: Early Modern European History (4)

Readings, discussion, and paper on topics in early modern European history. May be repeated for credit.

533 Seminar: Recent European History (4)

Readings, discussion, and paper on topics in recent European history. May be repeated for credit.

540 Seminar: British History (4)

Readings, discussion, and paper on topics in British history. May be repeated for credit.

542 Seminar: Russian History (4)

Readings, discussion, and paper on topics in Russian history. May be repeated for credit.

550 Seminar: Special Studies (4)

Topics of special interest that transcend cultural and chronological lines, as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

561 Seminar: History of Mexico (4)

Readings, discussion, and paper on topics in Mexican history. May be repeated for credit.

562 Seminar: Latin American History (4)

Readings, discussion, and paper on topics in Latin American history. May be repeated for credit.

571 Seminar: Early History of U.S. (4)

Readings, discussion, and paper on topics in the early history of the United States. May be repeated for credit.

575 Seminar: Recent History of U.S. (4)

Readings, discussion, and paper on topics in the recent history of the United States. May be repeated for credit.

577 Seminar: American Social and Intellectual History (4)

Readings, discussion, and paper on topics in American social and intellectual history. May be repeated for credit.

581 Seminar: History of the U.S. West (4)

Readings, discussion, and paper on topics in history of the U.S. West. May be repeated for credit.

591 Seminar: Recent Asian History (4)

Readings, discussion, and paper on topics in recent Asian history. May be repeated for credit.

595 Seminar in Historical Research and Writing (4)

Seminar in historical research methods and writing, culminating in a written research project. Must be taken twice to fulfill departmental requirements for historical research.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599 Thesis (1–8)

Prerequisites: Advancement to candidacy, instructor consent to act as thesis director, departmental approval of topic prior to registration. Independent research resulting in a thesis. Must be repeated to total of 4 units. Graded CR/NC.

Department of

Information Systems

School of Business and Economics

DEPARTMENT OFFICE

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The application of information systems and technology in an organization defines the field of study of the department. The field may be viewed in terms of software, hardware, networking, procedures, and people. The department's responsibility is to educate our students in the various aspects of organizational information systems. The department is engaged in teaching not just the design, development, implementation and operation of information systems, but also the management of such systems,

The department prepares its students for both the technical and management demands in this field.

The Faculty

Professors: Mohammad B. Ayati, Doris Christopher (Chair), Nandakumar Ganesan, Durward P. Jackson, George H. Jacobson, Marquerite Joyce, Ronald S. Lemos, Joseph C. Otto, Parviz Partow-Navid, Paul Rosenthal, Ludwig Slusky.

Associate Professor: Knox B. Wasley.

Emeritus: Robert C. Verkler.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Option in Office Systems (100 units)

Advisement: Department of Information Systems

The option prepares students for careers in an automated office systems environment, developing their competence in office management and supervision, automated office systems design and implementation, and personal computer applications. The BSBA degree with the Option in Office Systems requires completion of the BSBA Core (72 units) and the Option Requirements (28 units)

Core Requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)

Upper Division Required Courses (cont'd)

MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)

Select one from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for Office Systems (28 units)

Required Skills Course (4 units)

ACCT 325 or MGMT 489 or MKT 325

Other Required Courses (24 units)

CIS 283	Introduction to Application Programming (4)
CIS 320	PC Office Suites (4)
CIS 405B	Analysis and Design II (4)
CIS 413	Planning and Controlling the Automated Office (4)
CIS 414	Document Systems Management (4)
CIS 421	Human Resources in the Automated Office (4)

Bachelor of Science Degree in Computer Information Systems

Advisement: Department of Information Systems

A total of 192 units is required for the Bachelor of Science degree in Computer Information Systems, of which 110 units are in the major. All degree candidates must complete the remaining units in courses outside the School of Business and Economics. See the **Undergraduate Studies: General Information** chapter for details concerning these other units.

Requirements for the Major (110 units)

Both options require a common core of 90 units of lower and upper division courses in the School of Business and Economics and the Department of Mathematics and Computer Science. In addition, each student with upper division standing selects an option in either Business Systems or Information Technology.

Core Requirements (90 units)**Lower Division Required Courses (35 units)**

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
CIS 283	Introduction to Application Programming (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (3)
FIN 205	Legal and Regulatory Environment of Business I (4)
MATH 242	Mathematics for Business and Economics Majors (4)

Upper Division Required Courses (55 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
CIS 405A	Analysis and Logical Design I: Database (4)
CIS 405B	Analysis and Design II: Systems (4)
CIS 410	Hardware and Software Architecture (4)
CIS 484	Communications Systems (4)
ECON 309	Applied Business and Economic Statistics II (3)
FIN 303	Business Finance (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)
MGMT 301	Business Communication (4)

Options (20 units)**Option 1: Business Systems (20 units)**

This option prepares students for careers as information systems professionals in end-user departments (such as accounting, marketing, finance, personnel, office systems) in which they support personal computing activities, develop and maintain departmental information systems, and work as business analysts; or work in information centers. Students who select this option are encouraged to pursue a second major in business administration.

Programming Electives (4 units)

Select 4 units from the following:

CIS 383, 445, 450, 451, 452, 453, 454 (when applicable), 455, 457 (others with consent of adviser).

Systems and Applications Elective (4 units)

Select 4 units from the following:

UNIV 398*, CIS 320, 454 (when applicable), CIS 405C, 486, 487, 499*, (others with consent of adviser)

Business and Economics Electives (12 units)

Select 12 units of upper division courses from one functional area (except Information Systems) within the School of Business and Economics, with adviser approval.

Option 2: Information Technology (20 units)

This option provides students with the specialized knowledge needed for professional employment in an enterprise-level information systems department in all size organizations.

Required Course (4 units)

CIS 405C Advanced Information Systems Development (4)

Programming Electives (8-12 units)

Select 8 to 12 units from the following:

CIS 383, 445, 450, 451, 452, 453, 454 (when applicable), 455, 457, 499*, (others with consent of adviser).

Systems Electives (4-8 units)

Select 4 to 8 units from the following:

UNIV 398*

CIS, 454 (when applicable) 486, 487, 499*, (others with consent of adviser).

*Total of 398 and 499 units may not exceed 8 units of credit for the CIS major and must be approved by the adviser.

Minor in Computer Information Systems

The purpose of the minor in Computer Information Systems is to provide students majoring in nonbusiness and business disciplines the opportunity to develop skills needed to apply computer information systems to their major field of study. The minor requires 23-24 units.

Requirements for the Minor (23-24 units)**Required Courses (3-4 units)**

CIS 100 Business Computer Systems (4) or
CS 160 Introduction to Computers (3) or
an equivalent course.

Electives (20 units)

Select 20 units from the following:

CIS 283 Introduction to Application Programming (4)
CIS 383 Advanced Application Programming (4)
CIS 405A Analysis and Logical Design I (4)
CIS 405B Analysis and Design II (4)
CIS 410 Hardware and Software Architecture (4)
CIS 414 Document Systems Management (4)
CIS 445 Network Applications Development (4)
CIS 453 Application Programming in C++ Language (4)
CIS 454 Special Topics in Business Information Systems (4) (when appropriate)
CIS 455 Visual Basic (4)
CIS 457 JAVA (4)
CIS 484 Communication Systems (4)
CIS 486 Managing Information Systems Support (4)
CIS 487 Decision Support Systems (4)

(Others with consent of CIS adviser)

Certificate Program in Computer Programming

The Department of Information Systems offers a credit certificate in Computer Programming, designed to prepare individuals for entry level computer programming positions or other positions that require sophisticated knowledge of computer technology. The program consists of 28 units including 16 units of required courses and 12 units of electives. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (27-28 units)

Required courses (11-12 units)

CIS 100	Business Computer Systems (4) or
CS 160	Introduction to Computers (3) or an equivalent course
CIS 283	Introduction to Application Programming (4)
CIS 405A	Analysis and Logical Design I (4)

Electives (16 units)

Select 16 units from the following:

CIS 383, 405B, 445, 450, 451, 452, 453, 454

(when appropriate), 455, 457, 484

Others with adviser approval.

Certificate Program in Office Systems

The Department of Information Systems offers a credit certificate in Office Systems, designed for teachers and trainers in education and industry who are responsible for teaching students and employees widely used microcomputer business applications. Students enrolled in this certificate program will have an opportunity to study the latest

advancements in office systems. Included in the certificate is instruction in integrated and stand-alone software packages in word processing, electronic spreadsheets, data base management systems, telecommunications, and graphics.

The program contains a total of 24 quarter units of CIS courses: 20 units in the core and 4 units of electives. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required Courses (20 units)

CIS 320	PC Office Suites (4)
CIS 413	Planning and Controlling the Automated Office (4)
CIS 414	Document Systems Management (4)
CIS 421	Human Resources in the Automated Office (4)
CIS 484	Communications Systems (4)

Electives (4 units)

Select 4 units from the following:

CIS 405A, 486, 487

Graduate and Postbaccalaureate Programs

Certificate Program in Advanced Information Systems

The Department of Information Systems offers a credit certificate in Advanced Information Systems, designed to provide an academic base for information systems professionals in such specialties as systems analysis and design, data administration, client-server systems, web-based systems, object-oriented and visual programming and distributed data processing as well as information systems management. The emphasis is on the study of advanced techniques and software productivity tools. This certificate is suitable for students who have completed or expect to earn an undergraduate degree other than Computer Information Systems; graduate students in business administration; or information systems professionals who hold a bachelor's degree in any field.

The program contains a minimum of 28 units in CIS and related courses: 16 units in the core and at least 12 units of electives. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Prerequisites:

- A bachelor's degree in Business Administration; **or**
- Senior standing in a Bachelor of Science degree program in Business Administration or Computer Science; **or**
- Classified graduate standing in a master's degree program in the School of Business and Economics; **or**
- A bachelor's degree in another field and at least two years of experience in business management **or** as an information systems professional.

Requirements for the Certificate (28 units)

Required Core (16 units)

CIS 301	Management Information Systems (4)
CIS 405A	Analysis and Logical Design I (4)
CIS 405B	Analysis and Design II (4)
CIS 484	Communication Systems (4)

Electives

Select at least 12 units from the following:

CIS 383, 405C, 445, 450, 451, 452, 453, 454, 455, 457, 486, 487, 527*, 528*, 543*, 581*, 584*, 598*, others with adviser approval.

**Restricted to classified graduate students.*

Master of Science Degree in Information Systems

The Master of Science in Information Systems is designed to help persons employed in the Information Technology field to develop the necessary technical and managerial skills to fulfill the responsibilities of senior professional and project management positions in the industry.

Admission to the Program

In addition to university requirements for admission to graduate study, applicants must meet the following requirements:

Provide a resume that documents a minimum of two years full-time professional level work experience or equivalent in a business information systems setting.

Two recommendations from persons who have supervised the applicant's work in a business information setting.

Requirements for the Degree (45 units)

A total of 45 units is required with at least 32 units in 500 level courses.

Required Courses (13 units)

CIS 504	Information Systems (4). <i>CIS 504 is a prerequisite to all other courses in the program</i>
CIS 410	Hardware and Software Architecture (4)
CIS 528	Seminar: Current Problems in Computer Information Systems (3)
CIS 598	Graduate Directed Study (1) <i>CIS 598 is a Corequisite with CIS 528</i>
BUS 597	Graduate Research (1)

Electives (32 units)

Select 32 units of 400 or 500 level courses with prior graduate adviser approval.

Comprehensive Examination (0 units)

Students should expect to take the comprehensive examination (BUS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

List of Courses (CIS) - Undergraduate Level**Lower Division Courses****100 Business Computer Systems (4)**

Computer system fundamentals; computer hardware and software concepts; introduction to microcomputer software.

283 Introduction to Application Programming (4)

Prerequisite: CIS 100. Introduction to business application programming, primarily in COBOL, including data representation, input-output, calculations, report setup, sorting, control breaks, update, and structured programming concepts/techniques. CAN CSCI 8

Upper Division Courses

Upper division standing is prerequisite to enrollment in 300- and 400-level CIS courses.

301 Management Information Systems (4)

Prerequisites: CIS 100, ACCT 200AB. Organizational context of computer-based information systems; common business applications; information architecture; user role in systems development.

320 PC Office Suites (4)

Prerequisites: CIS 100, MGMT 301. Intensive, hands-on instruction in software suite applications using Microsoft Office. Includes introductory and intermediate study of word processing, desktop publishing, spreadsheets, graphics, database management, presentations design, desktop information management, application integration, and internet integration.

383 Advanced Application Programming (4)

Prerequisite: CIS 283. Programming of complex, integrated business application systems; advanced language features such as table handling and subroutines; job control concepts.

405A Analysis and Logical Design I (4)

Prerequisites: Knowledge of Microsoft windows and programming language. The role of database in information systems; data modeling using entity-relationship analysis; relational database concepts; normalization; SQL/query language; implementation of a single-user database application on a microcomputer.

405B Analysis and Design II (4)

Prerequisite: CIS 405A. Life cycle and methodologies; requirements determination, logical design, physical design, test and implementation planning, and performance evaluation; communication and interpersonal skills; analysis methods and tools; impact of emerging technologies.

405C Advanced Information Systems Development (4)

Prerequisite: CIS 405B. Physical design and implementation of an information system; development in an object-based programming and relational database environment; group project.

410 Hardware and Software Architecture (4)

Prerequisites: CIS 100 and 283. Analysis of contemporary information technology architectures and environments, including: multi-tiered client/server architectures; enterprise, workgroup, and personal systems hardware and operating systems; and systems and program planning and development tools.

413 Planning and Controlling the Automated Office (4)

Management functions as applied to the traditional and automated office environment along with an evaluation, implementation, control and adjustment of the office environment information system.

414 Document Systems Management (4)

Prerequisites: CIS 301, MGMT 301. Principles of multimedia electronic document, imaging, and presentation creation, storage, management, and interchange. Individual and group methods and tools. Intensive hands-on instruction in a major multimedia and workflow system.

421 Human Resources in the Automated Office (4)

Prerequisite: CIS 413. Personnel supervision practices and policies in the office; selection, training, motivation, performance appraisal, job analysis, employee benefits, labor-management relations, impact of automation on employee.

445 Network Application Development

Prerequisite: CIS 405A. Design and implementation of multi-user business applications emphasizing client/server technology.

450 Advanced Data Base Design (4)

Prerequisite: CIS 405A. Object-oriented data modeling and design for database systems; unified modeling language; distributed database; role of the data administrator.

451 Mainframe Database Technology (4)

Prerequisite: CIS 405. Mainframe data base analysis/programming; relational model and data definition and manipulation using IBM DB2 and Structured Query Language (SQL); systems applications architecture contexts; physical data structures and interface with COBOL/CICS.

452 Customer Information Control System (4)

Prerequisite: CIS 383. Introduction to CICS/VS command level with ANS COBOL including program concepts, transactions, tasks, creating maps, terminal input/output commands, and file maintenance.

453 Application Programming in C++ Language (4)

Prerequisite: CIS 283 or equivalent. Effective use of advanced features of C++ to develop integrated sets of application programs for business organizations.

454 Special Topics in Business Information Systems (1-4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisite. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

455 Visual Basic (4)

Prerequisite: Any programming language. Design, construction, and use of visual basic programs. Interfaces to the database management systems.

457 Java Programming (4)

Prerequisite: CIS 453. Object-Oriented programming for business applications in Java. Includes applications versus applets, classes, interfaces, arrays, multimedia, exceptions, and threads.

484 Communications Systems (4)

Prerequisite: CIS 100. Business data communications and local area network topics including data communications theory, communication hardware and software, microcomputers in communications, LANs, on-line services, electronic mail, and WANs.

486 Managing Information Systems Support (4)

Prerequisites: CIS 301, CIS 405B, MGMT 307. Effective techniques in managing data processing operations and information systems development.

487 Decision Support Systems (4)

Prerequisites: CIS 100; FIN 303; ECON 391 or MGMT 306. Computer-based decision analysis techniques and software packages; use of spreadsheet facilities, expert systems, optimization, and simulation techniques.

Graduate Level Courses (CIS)

Classified graduate standing and approval by the School of Business and Economics Advisement Center are required for admission to all 500-level courses.

504 Information Systems (4)

Overview of computer, communication and software systems. Cases in: business applications of information technology, managing the acquisition and use of application systems, and working with the Information Systems Organization.

527 Seminar: Computerized Decision Analysis (3)

Corequisite: CIS 598. Analysis, design, management, and use of a business information system, concentrating on participation of top and middle managers in these functions.

528 Current Problems in Computer Information Systems (4)

Prerequisite: CIS 504. Latest research projects in computer information systems; application of research techniques and results to specific problems. May be repeated once as subject matter changes.

543 Seminar: Data Base Planning (3)

Prerequisite: CIS 504. Corequisite: CIS 598. Management responsibilities in data base planning; methods of planning for data bases; case studies in data base development.

560 Seminar: Microcomputer Networks (3)

Prerequisite: CIS 504. Corequisite: CIS 598. Advanced technology concepts and developments seminar; trends in hardware and associated operating systems and architecture; Distributed Information Systems (distributed data processing), networking, data communications related to networks.

567 Seminar: Business Expert Systems (3)

Prerequisite: CIS 504. Corequisite: CIS 598. Business expert systems and their role in reshaping traditional concepts of what organizations are, how they are managed, and how decisions are made.

581 Health Care Information Systems (4)

Overview of computer, communication and software systems. Cases in Health Care IT applications. Development, acquisition and use of custom and packaged application systems. Working with the Information Systems Organization.

583 Information Systems Consulting (4)

Approaches and tools for consulting to the modern information-age organization. Presentation of the results of actual IS consulting projects. Student case study presentations.

584 Seminar: Controlling and Auditing Computer Systems (3)

Corequisite: CIS 598. Controlling on-line interactive computer/data communication systems as a challenge to management and to internal and external auditors.

585 Communication and Information Services (4)

Prerequisite: CIS 504. Overview of the voice and data communication technologies underlying the Internet. Analysis of the tools and strategies needed for e-commerce and information services.

598 Graduate Directed Study (1)

Investigation of an approved project leading to written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Programs in

Interdisciplinary Business

School of Business and Economics

ADVISEMENT CENTER OFFICE

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The Faculty

Faculty from departments across the School of Business and Economics participate in this program.

By coordinating and combining resources from all its departments and faculty, the School of Business and Economics offers undergraduate and graduate programs which prepare students for management positions with broad responsibility. At the undergraduate level there are the Bachelor of Science in Business Administration, Option Special Business, and the Minor in Basic Business. At the graduate level is the Master of Business Administration (MBA) degree.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Option in Special Business (100 units)

Advisement: School Advisement Center

This option provides for programs designed to meet individual interests not covered by the other options. Permission to take this option must be secured from the dean of the school.

Core Requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)
MGMT 301	Business Communications (4)

Select one from the following:

ECON 303	Money, Banking and the Economy (4) or
ECON 310	Managerial Economics (4)

Option Requirements for Special Business (28 units)

Required Skills Course (4 units)

MGMT 489 or MKT 325

Elective Courses for the Option (24 units)

Courses in business, economics, and relevant fields, which students select in conference with the school dean and appropriate faculty members, depending upon their unique and special objectives.

Minor in Basic Business

Advisement: School Advisement Center

The purpose of the minor in Basic Business is to provide a structured program for students majoring in academic degree programs outside the School of Business and Economics who wish to augment their major with basic knowledge in business and economics.

For students who intend to pursue further study in business at advanced undergraduate or graduate levels, MATH 242 is strongly recommended. The 39 units required for the minor are:

Requirements for the Minor (39 units)

Lower Division Required Courses (27 units)

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (3)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (12 units)

FIN 303	Business Finance (4)
MGMT 307	Management and Organizational Behavior (4)
MKT 304	Principles of Marketing (4)

Graduate and Postbaccalaureate Programs

Master of Business Administration Degree (MBA)

This is a broad, management-oriented degree providing for only limited concentration in one of the following areas: accounting, business economics, computer information systems, finance, health care management, international business, management, marketing. Admission to the Program In addition to completing the 24 quarter units of acceptable preparatory business and related courses listed under *Classified Graduate Standing* earlier in this chapter and, for students concentrating in accounting, 20 quarter units in accounting (320ABC, 321, and 420), applicants must have an approved graduate program on file in the School Advisement Center.

The first 16 units of the required core (BUS 501, 502AB, 503) must be taken in a 2 quarter lock-step sequence.

Requirements for the Degree (48 units)

A total of 48 units is required.

Required Core (32 units)

BUS 501	High Performance Management: Communication, Teamwork, and Leadership (4)
BUS 502A	Integrative Business Strategy I (4)
BUS 502B	Integrative Business Strategy II (2)
BUS 503	Managing Business Processes (6)
BUS 504	Competing in a Global Environment (8)
BUS 505	New Business Management (8)

Additional Courses (16 units)

Select 500-level courses with adviser approval. These 16 units may be taken in one field, chosen from accounting, information systems, finance, international business, management, marketing, health care management, or business economics.

Each 3-unit, 500-level seminar included must be accompanied by a 1-unit 598 course from the same department.

Comprehensive Examination (written) (0 units)

Students should expect to take the comprehensive examination (BUS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

Certificate in Business Management

The Certificate Program in Business Management at California State University, Los Angeles is designed to provide the basic business skills to postbaccalaureate and graduate students interested in management positions. The program provides the essentials of business and management to those with limited or no formal education in business. The coursework completed under this certificate would fulfill the basic prerequisites for the MBA program offered by the School of Business and Economics.

The program consists of six 4-unit courses.

Prerequisites

- A Bachelor's degree in any field **or**
- Classified graduate standing in the School of Business and Economics **or**
- With consent of advisor

Required Courses (24 units)

ACCT 500	Financial and Managerial Accounting (4)
ECON 500	MBA Economics (4)
ECON 501	Quantitative Methods for Business Decision-Making (4)
FIN 500	Business Finance and Law (4)
MGMT 500	Management (4)
MKT 500	Marketing Principles and Concepts (4)

List of Courses (BUS) - Undergraduate Level

Lower Division Courses

101 Introduction to Higher Education (2)

The history and structure of the University. Faculty expectations, resources available to students, and skills necessary for student success. Careers and career management in business and economics. Lecture 2 hours. Graded *CR/NC*.

154 Special Topics in Business (1–4)

Current topics of special interest in business as announced in Schedule of Classes. May be repeated for credit as subject matter changes.

200 Work and Self Development (4)

This course systematically investigates how work shapes human understanding and behavior—past, present and future. It evaluates pertinent psychological, socio-cultural, economic and technological issues regarding work and individual achievement. **GE E**

250 Diversity, Business, and the Workplace (4)

Students learn how cultural diversity drives business behavior with specific reference to Los Angeles firms, and develop awareness, knowledge and skills to interact successfully within diverse business environments. **GE D**

Upper Division Courses

Upper division standing is prerequisite to enrollment in 300- and 400-level BUS courses.

395 Community Service in Business (1–3)

Prerequisites: Upper division standing in business; approval of school interdisciplinary faculty coordinator in consultation with EPIC director, and acceptance by an appropriate community agency or director of a campus-approved business assistance or development project. Participation in work of a community agency or activities in business assistance or development projects, utilizing professional and/or vocational skills in service to community. May be repeated to maximum of 6 units. Graded *CR/NC*.

454 Special Topics in Business (1–4)

Prerequisite: Varies with topic; see Schedule of Classes for specific prerequisites. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects. May be repeated for credit for 20 units as subject matter changes.

499 Undergraduate Directed Study (1–4)

Prerequisites: Senior standing and instructor consent to act as sponsor. Independent work and preparation of oral and written reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated for credit for 20 units as subject matter changes.

Graduate Level Courses (BUS)

Classified graduate standing and approval by the School of Business and Economics Advisement Center are required for admission to all 500-level courses.

501 High Performance Management: Communication, Teamwork, and Leadership (4)

Corequisite: BUS 502A. Develops the managerial skills that affect individual and group performance organizations. Topics include leadership, motivation, diversity management, organizational behavior, and human resource management. Managerial communication, team-building, negotiation, conflict resolution, and intercultural communication skills will also be emphasized.

502A Integrative Business Strategy I (4 units)

Corequisite: BUS 501. Provides an integrative view of strategically positioning the firm for success. Topics include legal, political, and economic environment, competitive, marketing and sales, technology, financial, technology, financial, and corporate planning strategies.

502B Integrative Business Strategy II (2 units)

Prerequisites: BUS 501, BUS 502; Corequisite: BUS 503. Provides an integrative view of strategically positioning the firm for success. Topics include legal, political, and economic environment, competitive, marketing and sales, technology, financial and corporate planning strategies. Continues the material from BUS 502A.

503 Managing Business Processes (6 units)

Prerequisite: BUS 501, BUS 502A; Corequisite: BUS 502B. Organized around the value chain methodology, the course will cover the business processes central to a firm's product creation and delivery activities. Logistics, process design, marketing and sales procurement, and technology will be analyzed along with the management, support and information services needed to support these functions.

504 Competing in a Global Environment (8 units)

Prerequisite: BUS 503. Acknowledging the global environment in which business operates, this course addresses management concerns for maximum organizational effectiveness in international business. Topics include international market identification, trade practices and policy, legal issues in business, international currency markets, joint ventures, international business strategy, and global management. Intercultural management issues, negotiation, and cross-cultural differences will also be addressed.

505 New Business Management (8 units)

Prerequisite: BUS 503. An interdisciplinary understanding of the skills and knowledge necessary to starting and managing a new business. Topics include market research, new product design and analysis, raising capital, forecasting demand, new business opportunities, project management, writing a business plan.

597 Graduate Research (1–4)

Prerequisites: Instructor consent to act as sponsor, approval of graduate associate dean prior to registration. Independent research under guidance of faculty member. Acceptable final written report required. May be repeated for credit to maximum of 8 units. Graded *CR/NC*.

599A Thesis (2)

Prerequisites: Written approval of graduate adviser; for M.S. Business Administration candidates, completion of at least one of ACCT 503, ECON 502, or MGMT 501 and concurrent registration in at least one of the remaining two courses. Formal course in research methodology conducted at option of individual departments. Prior to completion, students will have completed a tentative outline of thesis, petitioned graduate adviser for appointment of a thesis committee, and submitted tentative outline to thesis committee. Graded *CR/NC*.

599B Thesis (3)

Prerequisites: BUS 599A, written approval of thesis committee chair. Completion of thesis under direct supervision of thesis committee. Graded *CR/NC*.

Programs in

International Business

School of Business and Economics

ADVISEMENT CENTER OFFICE

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More and more, International Business is everyday business. Within this interdisciplinary program of the School of Business and Economics are a Bachelor of Science degree, two certificate programs, and a Master of Science degree.

The Faculty

Faculty from departments across the School of Business and Economics participate in this program.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Option in International Business (100 units)

Advisement: School Advisement Center

This option prepares students for careers with international, multinational or transnational firms and for the commerce option of the federal government Foreign Service Officer Examination.

Core Requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4,4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4,4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MGMT 304	Principles of Marketing (4)

Select one from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for International Business (28 units)

Required Courses (20 units)

MKT 325	High Performance Professional Skills (4)
MKT 358	International Business (4)
MKT 456	International Marketing Management (4)
FIN 431	Multinational Financial Management (4)
MGMT 462	Comparative Management (4)

Electives (8 units)

Select 8 units from the following:

MKT 455, 457
MKT 459/SPCH 459
ECON 426 or 460 or 461 or 462

Certificate Program in International Business

The School of Business and Economics offers a certificate in International Business, designed to prepare students for careers in firms operating on a multinational basis; for careers in import-export, international finance and banking, and international agencies; and for the commerce option of the Foreign Service Officer examination with the federal government. It also provides training for managers of internationally-oriented companies in the Los Angeles area.

A total of 24 units is required. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required courses (16 units)

FIN 431	Multinational Financial Management (4)
MGMT 462	Comparative Management (4)
MKT 358	International Business (4)
MKT 456	International Marketing Management (4)

Electives (8 units)

Select two upper division School of Business and Economics electives with adviser approval.

Certificate Program in International Business Communication

This Certificate in International Business Communication (IBC) affords the opportunity to combine language, culture, communication and business knowledge. It will give business degree students a chance to add language and intercultural expertise, along with enhanced communication skills, to their program of study in the form of a certificate. At the same time, it will give language degree students, communication studies students, or area studies students a chance to add business courses to their program of study and obtain a certificate. The certificate will enable students to pursue careers in organizations that want both recognized language skills and business training, such as international business, international foundations, nongovernment organizations (NGOs), and international educational organizations. The language, culture and communication components will also benefit students who obtain jobs in local organizations whose employees represent multiple cultures.

The IBC certificate involves 24 credit units, selected from four required and two elective courses.

Prerequisites

- Senior standing in a BS in Business Administration degree program or a BA degree program in Modern Languages, or in Pan African or Chicano Studies, or Communication Studies, or Economics at California State University, Los Angeles, **or**
- A BA degree in language or communication from California State University, Los Angeles, **or**

Prerequisites (cont'd)

- A BA degree in area studies (e.g. Latin American Studies, Asian Studies) from another recognized university, **or**
- A BS degree in Business Administration from California State University, Los Angeles or another recognized university **or**
- Graduate standing in a master's degree program in business, economics, communication, area studies, or modern language at California State University, Los Angeles **or**
- Consent of the certificate coordinator.

Requirements for the Certificate (24 units)

Required Core Courses (16 units)

MKT 358	International Business (4)
SPCH 489	Intercultural Communication (4)
MKT 459 / SPCH 459	Intercultural Business Communication (4)

One language course from among the following:

SPAN 380	Business Spanish (4)
JAPN 380	Business Japanese (4)
CHIN 380	Business Chinese (4)

(Prerequisites or waivers apply for all language courses)

Electives (8 units)

One area studies elective from among the following:

ANTH 401	Comparative Cultures (4)
LAS 335	Race and Culture in Latin America (4)

Graduate and Postbaccalaureate Programs

Master of Science Degree in Business Administration with the Option: International Business (45 units)

This is a specialized degree program permitting concentration and research in one of several options.

Admission to the Program

The application must include three letters of recommendation from either employers or academicians.

Students are required to complete 36 units of preparatory business and related courses for admission to classified graduate standing for the M. S. degree in Business Administration.

The 36-unit requirement can be met either by taking the courses listed below or by submitting transcripts demonstrating that the equivalent subject material has been successfully completed either at the undergraduate or graduate level. In addition, competency must be demonstrated in calculus, statistics, and the use of computers. The competency requirement can be met by successfully passing competency exams in each area of by submitting transcripts showing that the subject matter has been successfully completed at either the undergraduate or graduate level.

ACCT 260R, 360R
ECON 311R
FIN 261R, 363R

MGMT 361R, 366R, 367R or 368R
MKT 364R

In addition to completing the 36 quarter units of acceptable basic business courses listed above, applicants must have an approved graduate degree program on file in the School Advisement Center.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 41 units in 500-level courses.

Required Core (23–26 units)

ACCT 503	Quantitative Approach to Managerial Decisions (4)
CIS 504	Management Information Systems (4)
ECON 502	Economic Analysis and Business Operations (4)
MGMT 501	Administrative Behavior and Systems Management (4)
MGMT 594	Policy Integration and Strategy (3)
MGMT 598	Graduate Directed Study (1)

Additional 598 courses are to be taken for 4-7 units selected with advisor approval.

Thesis (5 units)

BUS 599AB Thesis (2, 3)

Required Courses for the Option (9 units)

Select 9 units from following:

ACCT 525	Seminar: International Accounting (3)
ECON 561	Seminar: International Economics (3)
FIN 533	Seminar: International Finance (3)
MGMT 577	Seminar: International Business Management (3)
MKT 543	Seminar: International Marketing (3)

Electives for the Option (4–7 units)

Courses to be selected with advisor approval. In addition, intermediate level proficiency in an appropriate foreign language is recommended.

Department of

Kinesiology and Physical Education

School of Health and Human Services

DEPARTMENT OFFICE

Physical Education 206

Phone: (323) 343-4650

E-mail: kpedept@calstatela.edu

Website: www.calstatela.edu/dept/pe/index.htm

The mission of the Department of Kinesiology and Physical Education is to advance the values of human movement. Those values are pursued by developing the body of knowledge, promoting scholarship, educating for physically active, healthy lifestyles and preparing highly adaptive professionals for appropriate roles in a rapidly changing, diverse society.

The Department of Kinesiology and Physical Education offers programs leading to the Bachelor of Science and Master of Arts degrees for students interested in teaching, coaching, exercise science, adapted physical education, or preparing for advanced study in the foundations of human physical performance. General activity courses are open to all students with requisite proficiency at a wide range of skill levels and in a variety of activities and sports. Adapted physical education, providing individual programs of corrective exercises and specially designed sports activities, may be taken by students who need such a program. Assignment by a university physician or department adviser is required.

The Faculty

Professors: Mary Conroy, Rod A. Faurot, Janet C. Harris (Chair), Melva E. Irvin, Karen M. Johnson, Carol G. McKenzie

Associate Professors: Dwan M. Bridges, Daniel Frankl, Nazareth Khodiguian

Assistant Professors: Andrew Cornwell, Ron E. Hull, James P. Kallusky, Jan Schroeder

Emeriti: Leonard L. Adams, Jerry Reed Ball, Cameron Scott Deeds, Patricia A. Delaney, Anita H. Fisher, Reid J. Gunnell, John W. Hermann, Jackie L. Hoyt, Joan D. Johnson, Robert A. Miller, Marguerite Mochel, Ron Morris, Reed E. Nilsen, Dorothy A. O'Brien, Warren E. Reeves, Janet A. Seaman, Mary L. Schreiber, Burton M. Seidler, Albert A. Tillman, Patricia L. Wagner, Beverly Y. Warner, Patricia M. White, William E. Wilgus, George W. Willott, Emil Wroblicky

Undergraduate Programs

Bachelor of Science Degree in Physical Education

The Bachelor of Science degree program in Physical Education prepares students for careers in educational settings and public and private fitness industries.

Requirements for the Major (75-84 units)

A total of 186 to 196 units is required for the Bachelor of Science degree in Physical Education which includes either General Education courses (Options I and II) or the Multiple Subject Common Core (Option III). The Bachelor of Science degree in Physical Education has three options. Exercise Science (option I) and the Single Subject Credential (option II) require 81-84 units, and include a required core of 45 units of lower and upper division kinesiology and physical education courses. Students seeking to combine the study of Physical Education with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below (Option III). This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation Program common core, plus the 75-80 units specified below for this option. **Students must earn minimum C grades in all required major courses.**

Courses in Related Fields

Physical Education majors in Options I and II must include BIOL 200AB in their program. These courses fulfill general

education Block B (Natural Sciences) biological science requirement. Students must also include PSY 150 and SOC 201 in the program. These courses fulfill GE Block D (Social Sciences) requirements. In addition, completion of a GE course in CHEM 158 and 159 or PHYS 150 is recommended.

Required Physical Education Core for Options I and II (45 units)

The core consists of 10 units of professional activities, 10 units of foundations courses, and 25 units of upper division concept courses.

Lower Division

Professional Activities (10 units)

Required Courses (6 units)

KPE 283 Aquatics Activities (2)
KPE 286 Square, Folk, and Social Dance (2)
KPE 288 Physical Fitness Activities (2)

Individual and Dual Sports (2 units)

Select one from the following

KPE 281A Archery and Badminton (2)
KPE 281G Golf and Tennis (2)
KPE 281T Track and Field (2)
*KPE 285 Outdoor Education and Contemporary Games (2)
*KPE 287 Combatives (2)
*KPE 289 Gymnastics and Tumbling (2)

*These courses are required in option II (Teaching)

Team Sports (2 units)

Select one from the following

- KPE 282F Flag Football and Team Handball (2)
 KPE 282S Softball and Soccer (2)
 KPE 282V Volleyball and Basketball (2)

Foundations Courses (10 units)

- KPE 160 Dimensions of Physical Education (2)
 KPE 161 Movement Principles of Basic Skills (4)
 KPE 260 Historical and Philosophical Bases of Physical Education (4)

Upper Division

Successful completion of the GWAR is prerequisite to enrollment in all upper division major courses.

Concept Courses (25 units)

- KPE 310 Written Communication (4)
 KPE 330 Measurement and Evaluation of Human Performance (4)
 KPE 340 Applied Biomechanics (4)
 KPE 360 Physiology of Exercise and Physical Activity (5)
 KPE 365 Applied Motor Learning (4)
 KPE 370 Psychosocial Bases in Physical Education and Sport (4)

Options I and II Additional Courses (36–39 units)

Select one of the following options and complete the required courses as listed below for Option I or II.

Option I: Exercise Science (36–39 units)

This option prepares students for careers in fitness and related fields. Students acquire skills and knowledge necessary for employment in health and fitness centers, hospitals, orthopedic centers, sport medicine clinics, and similar health care environments. Students who complete this major will have 41–44 units of free electives which may be used, if desired, for further specialization in courses related to fitness and business management, laboratory technology, and biomechanics. Completion of GE courses in CHEM 151 and PHYS 150 is highly recommended.

Required Courses (36-39 units)**Upper Division Concept Courses (32-33 units)**

- KPE 383 Theory and Analysis of Aquatics (3)
 KPE 388 Theory and Analysis of Fitness (3)
 KPE 471 Computer Applications in Physical Education (3)
 KPE 474A Proseminar: Field Evaluation of Fitness (4)
 KPE 474B Proseminar: Laboratory Assessment Techniques (4)
 KPE 475 Proseminar: Exercise Prescription and Implementation (4)
 KPE 476 Administration of Fitness Programs (4)
 KPE 492A Field Experience in Exercise Science (2)
 KPE 492B Field Experience in Exercise Science (2)

Select one from following (3-4 units)

- KPE 380 Theory and Analysis of Sport Activities (4)
 KPE 386 Theory and Analysis of Square, Folk, and Social Dance (3)
 KPE 389 Theory and Analysis of Gymnastics and Tumbling (3)

Electives

Select 4–6

With adviser approval, complete 4-6 units of electives.

Option II: Single Subject Credential (37 units)

This option is designed for individuals interested in teaching physical education. Students seeking a teaching credential should see advisers in the department and in the Charter School of Education. Refer to the **Charter School of Education section of the Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Lower Division (11 units)**Professional Activity Courses (8 units)**

- Required Activities (6 units) with no duplication from the core
 KPE 285 Outdoor Education and Contemporary Games (2)
 KPE 287 Combatives (2)
 KPE 289 Gymnastics (2)

Individual, Dual and Team Sports (2 units)

Select one from the following with no duplication from the core and/ or required activities.

- KPE 281A Archery and Badminton (2)
 KPE 281G Golf and Tennis (2)
 KPE 281T Track and Field (2)
 KPE 282F Flag Football and Team Handball (2)
 KPE 282S Softball and Soccer (2)
 KPE 282V Volleyball and Basketball (2)

Required Related Course (3 units)

- HS 201 Medical Emergencies Management (3)

Upper Division (26 units)**Professional Preparation Courses (23 units)**

- KPE 380 Theory and Analysis of Sport Activities (4)
 KPE 388 Theory and Analysis of Fitness (3)
 KPE 404 Physical Education for the Elementary School Child (3)
 KPE 410 Curriculum Designs in Physical Education (3)
 KPE 411A Class Management and Organization in Physical Education (3)
 KPE 411B Field Experience in Elementary Physical Education (1)
 KPE 411C Field Experience in Secondary Physical Education (2)
 KPE 450 Dimensions of Physical Education for Individuals with Disabilities (4)

Elective (3 units)

Select one from following:

- KPE 383 Theory and Analysis of Aquatics (3)
 KPE 386 Theory and Analysis of Square, Folk, and Social Dance (3)
 KPE 389 Theory and Analysis of Gymnastics and Tumbling (3)

Option III: Multiple Subject Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education section in the Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106–111 units)

Refer to the *Undergraduate Studies: General Information* chapter of this catalog for the list of courses in this common core.

Major Core (20 units)

- KPE 161 Movement Principles of Basic Skills (4)
 KPE 260 Historical and Philosophical Bases of Physical Education (4)
 KPE 286 Professional Activities: Square, Folk, Social Dance (2)
 KPE 288 Professional Activities: Physical Fitness (2)
 KPE 370 Psychosocial Bases in Physical Education and Sport (4)
 KPE 424 Movement and Maturation (4)

Physical Education Depth Area (20 units)

- KPE330 Measurement and Evaluation of Human Performance (4)
 KPE388 Theory and Analysis of Fitness (3)
 KPE410 Curriculum Designs in Physical Education (3)
 KPE411A Class Management and Organization in Physical Education (3)
 KPE 411B Field Experience in Elementary Physical Education (1)
 KPE 450 Dimensions of Physical Education for Individuals with Disabilities (4)
 KPE 454 Special Topics in Physical Education (Movement Skill Development) (2)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

The Credential Program

Refer to the **Charter School of Education** section in the *Academic Programs: School-based and University-wide* chapter of this catalog for regulations governing all teaching credential programs.

Single Subject Credential

The B.S. degree program in Physical Education Option II has been approved by the Commission on Teacher Credentialing as the subject matter program designed to qualify students for the Single Subject credential in Kinesiology and Physical Education. Students should consult credential advisers in the department and the Charter School of Education.

Supplementary Authorization

Holders of a single subject or multiple subject credential issued by the State of California may add a supplemental authorization to teach in another discipline by completing additional course work.

See departmental credential adviser for requirements for a supplementary authorization in physical education.

Adapted Physical Education Specialist Credential

The program leading to the Adapted Physical Education Specialist credential meets the subject matter requirements and entitles the holder to teach adapted physical education in California to individuals between the ages of 3 and 21 years who have exceptional needs. The 28-unit program is based upon a basic authorization to teach physical education. Candidates must hold (or concurrently complete) a Single Subject credential in Physical Education, a Multiple Subject credential, or an equivalent authorization. They also must maintain a minimum 2.5 grade point average for all courses required in the program, complete directed teaching, and receive departmental recommendation.

Required Courses (24–28 units)

- *EDSP400 Foundations of Special Education (4)
 KPE 450 Dimensions of Physical Education for Individuals with Disabilities (4)
 KPE 452 Physical Education for Severely Handicapped (4)
 KPE 453 Physical Education for Learning Handicapped (4)
 KPE 455 Motor Assessment of Exceptional Students (4)
 KPE 456 Physical Education for Physically Handicapped (4)
 KPE 457 Interdisciplinary Approach to Physical Education for Exceptional Students (4)

**Required for students entering the program who do not possess a clear credential.*

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Physical Education

The Master of Arts degree in Physical Education focuses on problem solving through knowledge and application of the research process and familiarity with professional literature. The program emphasizes marketable skills and a foundation for doctoral study. Graduate study in physical education provides depth of knowledge in the options while providing opportunities for greater breadth in related disciplines.

Admission to the Program

Applicants must have adequate undergraduate preparation in physical education and a minimum 2.75 grade point average in the last 90 quarter units.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

KPE 330 (4 units) is required of all students for advancement to candidacy.

KPE 502 must be successfully completed within the first 12 units of course work in the degree program, and is recommended to be completed in the first quarter of initial enrollment.

Required Core Courses (12 units)

- KPE 502 Research Design in Human Performance (4)
 KPE 503 Applied Statistics in Human Performance (thesis track) (4) or
 KPE 505 Measurement and Evaluation in Physical Education (non-thesis track) (4)
 KPE 507 Sport in a Multicultural Society (4)

Option in Advanced Study for Physical Educators (33 units)

Required Courses (12 units)

- KPE 510 Effective Teaching in Physical Education: Research Assessment and Development (3)
 KPE 513 Staff and Organizational Development in Physical Education (3)
 KPE 514 Analysis and Supervision of Physical Education (3)
 KPE 518 Behavior Management in Physical Education (3)

In-depth Content Study (6)

Select two courses from 400-level physical education courses.

Electives (9-15 units)

Select with adviser approval.

Thesis, Project or Exam (0-6 units)

- KPE 596 Comprehensive Examination (0) or
 KPE 599 Thesis or Project (6)

Students who select the comprehensive examination (KPE 596) may take it in their last quarter of course work, or in any subsequent quarter it is offered, and must comply with school and departmental requirements. The comprehensive examination consists of two parts, one covering the required core and the other covering the student's option. Students are responsible for the material covered in all courses in the option.

Option in Exercise Science (33 units)

Required Courses (14 units)

- KPE 570 Neuromuscular Aspects of Physical Performance (4)
 KPE 571 Cardiorespiratory Aspects of Physical Performance (4)
 KPE 572 Exercise Prescription for Special Populations (3)
 KPE 573 Exercise Intervention in Cardiac Rehabilitation (3)

Electives (13 units)

Select with adviser approval

Thesis or Project (6 units)

- KPE 599 Thesis or Project (6)

List of Courses (KPE) - Undergraduate Level

A student who has completed an intermediate or advanced course may not subsequently receive credit for a lower level course in the same activity.

Lower Division Courses

103 Summer Bridge (1-2)

Varied experiences for introducing Summer Bridge students to activities presented in the physical education activity program. Health related fitness level assessed. Activity 2 hours per unit. Graded CR/NC.

110 Intramural Sports (1)

Participation in university intramural sports. Elective credit only; may be repeated to maximum of 16 units. Activity 2 hours minimum. Graded CR/NC.

150 Fitness, Wellness in Contemporary Society (4)

Understanding self as integrated physiological, psychological, and sociological being. The impact of sociocultural experiences and health-related fitness on the individual, society and the environment is emphasized. Lecture 3 hours, laboratory 2 hours. **GE E**

151 Series: Individual Sports (1 or 2 units each)

Individual activities designed to develop skill, knowledge of rules, background and analysis of techniques at beginning level.

151A Beginning Archery

151C Beginning Bicycling

151B Beginning Bowling

151G Beginning Golf

151H Beginning Horseback Riding

151I Beginning Ice Skating

151S Beginning Skiing

151F Beginning Track and Field: Field Events

151R Beginning Track and Field: Running Events

152 Series: Team Sports (1 each)

Team activities designed to develop skill, knowledge of rules, background and analysis of techniques at beginning level.

152B Beginning Baseball

152D Beginning Basketball

152H Beginning Field Hockey

152F Beginning Football

152R Beginning Soccer

152S Beginning Softball

152T Beginning Team Handball

152U Beginning Ultimate Football

152V Beginning Volleyball

153 Series: Aquatics (1 each)

Aquatic activities designed to develop skill, knowledge of rules, background and analysis of techniques, and safety procedures at beginning level.

153A Aerobic Swimming

153D Beginning Springboard Diving

Prerequisite: KPE 153S

153S Beginning Swimming

153W Beginning Water Polo

154 Special Activities in Physical Education (1)

Varied experiences reflecting current interests of students in physical education and related experimental areas, as announced in *Schedule of Classes*. May be repeated as subject matter changes. Activity 2 hours.

155 Series: Physical Education for the Disabled (1 each)

Prerequisite: Physical disability or assignment by University physician. Theory, analysis, and beginning performance techniques of sports for the disabled. Open to interested physical education and recreation majors as well as disabled students in all majors. Each course may be repeated to maximum of 6 units as emphasis changes.

156 Series: Dance (1 each)

Activities designed to develop beginning skills in various dance forms accompanied by background information relevant to each form.

156F Beginning Folk Dance**156S Beginning Social Dance****156R Beginning Square and Round Dance****157 Series: Dual Sports (1 each)**

Dual activities designed to develop skill, knowledge of rules, background and analysis of techniques at beginning level.

157B Beginning Badminton**157F Beginning Fencing****157H Beginning Handball****157J Beginning Judo****157K Beginning Karate****157R Beginning Racquetball****157S Self Defense for Women****157T Beginning Tennis****157U Beginning Jujitsu****157W Beginning Wrestling****158 Series: Fitness Activities (1 or 2 units each)**

Fitness activities designed to develop skill, knowledge of rules, background and analysis of techniques at beginning level.

158A Beginning Aerobics**158B Beginning Body Building****158D Body Dynamics I****158E Beginning Jazz Exercise****158J Beginning Jogging****158P Beginning Physical Conditioning****158R Beginning Rope Jumping****158X Beginning Techniques of Relaxation****158S Beginning Techniques of Stretching****158W Beginning Weight Training****158Y Beginning Hatha Yoga****159 Series: Gymnastics Activities (1 or 2 units each)**

Gymnastics activities designed to develop skill, knowledge of rules, background and analysis of techniques at beginning level.

159M Beginning Men's Gymnastic Events**159W Beginning Women's Gymnastic Events****159T Beginning Tumbling and Trampoline****160 Dimensions of Physical Education (2)**

Scope and content of physical education discipline. Lecture 1 hour, supervised field experience 2 hours.

161 Movement Principles of Basic Skills (4)

Movement experiences applicable to programs of physical education, kindergarten through grade twelve. Individual learning experiences related to motor development and basic movement skills. Lecture 2 hours; demonstration-laboratory 4 hours.

251 Series: Individual Sports (1 each)

Prerequisite: Corresponding KPE 151 course. Individual activities designed to develop skill, knowledge of rules, background and analysis of techniques at intermediate level.

251A Intermediate Archery**251B Intermediate Bowling****251G Intermediate Golf****251H Intermediate Horseback Riding****251S Intermediate Skiing****251F Intermediate Track and Field: Field Events****251R Intermediate Track and Field: Running Events****252 Series: Team Sports (1 each)**

Prerequisite: Corresponding KPE 152 course. Team activities designed to develop skill, knowledge of rules, background and analysis of techniques at intermediate level.

252T Intermediate Team Handball**252V Intermediate Volleyball****253 Series: Aquatics (1 or 2 each)**

Prerequisite: KPE 153S. Water activities designed to develop skill, background and analysis of techniques, and safety procedures at intermediate or advanced levels.

253A Intermediate Aerobic Swimming**253N Snorkeling (Advanced)****253S Intermediate Swimming****254L,P Selected Topics in Physical Education (1-3)**

Current activities, new and varied, of interest to general student body, as announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

256 Series: Dance (1 each)

Prerequisite: Corresponding KPE 156 course. Activities designed to develop intermediate skills in various dance forms accompanied by background information relevant to each form.

256F Intermediate Folk Dance**256S Intermediate Social Dance****257 Series: Dual Sports (1 each)**

Prerequisite: Corresponding KPE 157 course. Dual activities designed to develop skill, knowledge of rules, background and analysis of techniques at intermediate level.

257B Intermediate Badminton**257F Intermediate Fencing****257H Intermediate Handball****257K Intermediate Karate****257P Intermediate Personal Defense****257R Intermediate Racquetball****257T Intermediate Tennis****258 Series: Fitness Activities (1 each)**

Prerequisite: Corresponding KPE 158 course. Fitness activities designed to develop skill, knowledge of rules, background and analysis of techniques at intermediate level.

258A Intermediate Aerobics**258B Body Dynamics and Intermediate Techniques of Relaxation****258J Intermediate Jazz Exercise****258P Intermediate Physical Conditioning****258W Intermediate Weight Training****259 Series: Gymnastics Activities (1 each)**

Prerequisite: Corresponding KPE 159 course. Gymnastics activities designed to develop skill, knowledge of rules, background and analysis of techniques at intermediate level.

259M Intermediate Men's Gymnastic Events**259W Intermediate Women's Gymnastic Events****259T Intermediate Tumbling and Trampoline****260 Historical and Philosophical Bases of Physical Education (4)**

Historical and philosophical backgrounds in development of physical education.

281 Series: Professional Activities (2 each)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

281A Pro Act: Archery/ Badminton (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

281G Pro Act: Golf /Tennis (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

281T Pro Act: Track and Field (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

282 Series: Professional Activities (2 each)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

282F Flag Football and Team Handball (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

282S Pro Act: Softball/Soccer (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

282V Pro Act: Volleyball/Basketball (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

283 Pro Act: Aquatics (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

285 Outdoor Education and Contemporary Games (2)

Designed to explore the history, philosophy, and principles of outdoor education and nontraditional games to include procedures used in the field as well as information on existing programs.

286 Pro Act: Square/Folk/Social (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

287 Professional Activities: Combatives (2)

Development of basic skill in personal defense, wrestling and rules and analysis of technique in combative activities. For students majoring in physical education.

288 Pro Act: Physical Fitness (2)

Development of fitness, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

289 Pro Act: Gymnastics and Tumbling (2)

Development of skill, knowledge of rules, and analysis of techniques at intermediate level. For students majoring in physical education.

Upper Division Courses

Successful completion of UNIV 400, the Writing Proficiency Examination, is prerequisite to enrollment in all upper division major courses in physical education.

300 Physiological and Nutritional Bases of Wellness (4)(also listed as NTRS 300)

Prerequisite: Completion of Block B of the general education program. Physiological and nutritional bases of health and wellness; body energy, nutrients, diet modification, weight control, stress management and healthful lifestyles based on exercise and nutrition.

310 Written Communication (4)

Prerequisite: Successful completion of the Graduation Writing Assessment Requirement (GWAR). Written communication skills for the physical education major with emphasis on techniques of writing formal reports, public relations information and essays.

330 Measurement and Evaluation of Human Performance (4)

Prerequisites: KPE 161; MATH 100 or 102. Analysis, evaluation, interpretation, use of tests and other assessment devices in physical education; application of basic statistical procedures using computer programs. Lecture 3 hours, discussion-laboratory 3 hours.

340 Applied Biomechanics (4)

Prerequisites: KPE 330; BIOL 200B. Analysis of anatomical and mechanical bases for efficiency of human movement. Lecture 3 hours, laboratory 3 hours.

351 Series: Individual Sports (1 each)

Prerequisite: Corresponding KPE 251 course. Individual activities designed to develop skill, knowledge of rules, background and analysis of techniques at advanced level.

351A Advanced Archery

351F Advanced Fencing

351G Advanced Golf

351S Advanced Skiing

352 Series: Team Sports (1 each)

Prerequisite: Corresponding KPE 252 course. Team activities designed to develop skill, knowledge of rules, background and analysis of techniques at advanced level.

352B Advanced Baseball

352D Advanced Basketball

352S Advanced Softball

352V Advanced Volleyball

353 Series: Aquatics (1 each)

Prerequisite: KPE 253S. Water activities designed to develop skill, background, analysis of techniques, and safety procedures at advanced levels.

353D Advanced Diving

353L Advanced Life Saving

353S Advanced Swimming

353W Advanced Water Polo

353X Synchronized Swimming

355 Series: Competitive Sports (2 each)

Introduction to tournament competition; development of advanced skills, knowledge of rules, and officiating as required at tournament level; participation in various types of tournament play.

355B Competitive Baseball

Prerequisite: Previous competitive baseball experience preferred.

355R Competitive Racquetball

Prerequisite: KPE 357R.

355T Competitive Tennis

Prerequisite: KPE 357T.

355V Competitive Volleyball

Prerequisite: KPE 252V.

357 Series: Dual Sports (1 each)

Prerequisite: Corresponding KPE 257 course. Dual activities designed to develop skill, knowledge of rules, background and analysis of techniques at advanced level.

357B Advanced Badminton

357H Advanced Handball

357K Advanced Karate

357R Advanced Racquetball

357T Advanced Tennis

357U Advanced Judo

357W Advanced Wrestling

359 Outdoor Education (3)

Aims, organization, administration, and program of the outdoor school.

360 Physiology of Exercise and Physical Activity (5)

Prerequisites: KPE 330; BIOL 200B. Analysis of physiological bases of effect of movement and stress on human organism; factors affecting conditioning. Lecture 4 hours, laboratory 3 hours.

361 Backpacking (3)

Corequisite: KPE 361P. Techniques of hiking, planning, understanding, and learning the skills for safe backpacking experiences, including survival skills, ecology, and equipment.

361P Backpacking Practicum (1)

Corequisite: KPE 361. Field experiences for backpacking skills. Field trips scheduled for weekends or quarter breaks.

363 Physiological Effects of Exercise during Aging (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Age-related physiological changes with mature adults, and the impact of physical activity on physical capacity. **GE Theme F**

365 Applied Motor Learning (4)

Prerequisite: KPE 330. Theory and research on how movements are controlled, learned and changed as a result of practice and/or experience. Synthesis of theory with skill acquisition is emphasized. Lecture 3 hours, laboratory 3 hours.

370 Psychosocial Bases of Physical Education and Sport (4)

Prerequisites: KPE 260; PSY 150; SOC 201 or 322A. Psychological and sociological influences on physical education and sport; implications for personal and professional direction.

380 Theory and Analysis of Sport Activities (4)

Prerequisites: Eight (8) units in KPE 281/282 series, KPE 365. Theory, analysis of performance techniques, strategies and teaching profession. Lecture 2 hours, demonstration lab 4 hours.

381 Theory and Analysis of Individual Sports (3 each)

Prerequisites: KPE 281A, 281G, 281T. Theory analysis, and advanced performance techniques of individual sports, emphasizing strategy and offensive and defensive systems. Lecture 2 hours, demonstration-laboratory 2 hours.

381F Theory and Analysis of Track and Field

Prerequisite: KPE 151F or 151R

381G Theory and Analysis of Golf

Prerequisite: KPE 151G.

381S Theory and Analysis of Self Defense

Prerequisite: KPE 157S.

381T Theory and Analysis of Tennis

Prerequisite: KPE 151T.

381W Theory and Analysis of Wrestling

Prerequisite: KPE 157W.

382 Theory and Analysis of Team Sports (3 each)

Prerequisite: Appropriate corresponding professional activity courses as indicated. Theory, analysis, and advanced performance techniques of team sports, emphasizing strategy and offensive and defensive systems. Lecture 2 hours, demonstration-laboratory 2 hours.

382B Theory and Analysis of Baseball

Prerequisite: KPE 152B.

382D Theory and Analysis of Basketball

Prerequisite: KPE 152D.

382F Theory and Analysis of Football

Prerequisite: KPE 152F.

382R Theory and Analysis of Soccer

Prerequisites: KPE 152R.

382V Theory and Analysis of Volleyball

Prerequisites: KPE 152V.

382W Theory and Analysis of Water Polo

Prerequisite: KPE 153W.

383 Theory and Analysis of Aquatics

Prerequisite: KPE 283. Theory and analysis of performance techniques, historical knowledge, safety procedures, and conditioning. Lecture 2 hours, demonstration-laboratory 2 hours.

383D Theory and Analysis of Diving (3)

Prerequisite: KPE 353D.

383S Theory and Analysis of Swimming (3)

Prerequisite: KPE 253S or 353S

383W Water Safety for Instructors (4)

Prerequisite: KPE 283. Advanced instruction in water safety technique, and teaching techniques used at all levels of swimming. Leads to Red Cross Water Safety Instructor certification and introduction to health service education certification. Lecture 2 hours, laboratory 4 hours.

386 Theory and Analysis of Square, Folk, and Social Dance (3)

Prerequisite: KPE 286. Theory, analysis of performance techniques, and teaching progressions of square, folk, and social dance. Lecture 2 hours, demonstration-laboratory 2 hours.

388 Theory and Analysis of Fitness (3)

Prerequisites: KPE 288, 340, 360. Theory and analysis of performance techniques; emphasis on components of fitness. Lecture 2 hours, demonstration-laboratory 2 hours.

388A Theory and Analysis of Aerobics (3)

Prerequisite: KPE 288. Theory and analysis of performance techniques; emphasis on components of fitness. Lecture 2 hours, demonstration-laboratory 2 hours.

389 Theory and Analysis of Gymnastics and Tumbling (3)

Prerequisite: KPE 289. Theory and analysis of performance techniques, historical knowledge, safety procedures, and conditioning. Lecture 2 hours, demonstration-laboratory 2 hours.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: KPE 498, 499

404 Physical Education for the Elementary School Child (3)

Prerequisites: KPE 161, 365. Content and process required to implement a developmental physical education program for elementary aged school children. Lecture 2 hours, practical teaching with children 2 hours.

410 Curriculum Designs in Physical Education (3)

Prerequisite: KPE 404 and either 380, 386, 388, or 389. Theory, practice, and development of curricula in physical education for kindergarten through twelfth grade.

411A Class Management and Organization in Physical Education (3)

Prerequisites: KPE 330, 410, and either 380 or 388. Analysis and application of organizational patterns; motivational techniques related to effective conduct of physical education classes for kindergarten through twelfth grade.

411B Field Experience in Elementary Physical Education (1)

Prerequisite: KPE 411A. Laboratory experience in application of organization and management techniques related to effective conduct of physical education. Emphasis on application for elementary school level physical education class. Laboratory/practicum 3 hours.

411C Field Experience in Secondary Physical Education (2)

Prerequisites: KPE 380, 411A. Laboratory experience in application of organization and management techniques related to effective conduct of physical education. Emphasis on application for secondary school level physical education class. Laboratory/practicum 6 hours.

412 Prevention and Care of Injuries (3)

Prerequisites: KPE 340; instructor consent for nonmajors. Common injuries occurring in physical activity and athletics with emphasis on prevention and care. Lecture 2 hours, laboratory 3 hours.

415 Officiating Basketball (2)

Prerequisite: KPE 152D or 352D or ATHL 342K. Problems, techniques, and practice in officiating basketball. Lecture 1 hour, activity 2 hours.

416 Officiating Football (2)

Prerequisite: KPE 152F. Problems, techniques, and practice in officiating football. Lecture 1 hour, activity 2 hours.

418 Officiating Volleyball (2)

Prerequisite: KPE 152V, 252V, 352V; or ATHL 342V (volleyball). Problems, techniques, and practice in officiating volleyball. Lecture 1 hour, activity 2 hours.

419 Officiating Softball (2)

Prerequisite: KPE 352S. Problems, techniques, and practice in officiating softball. Lecture 1 hour, activity 2 hours.

420 Movement Experiences in Growth and Development (3)

Movement experiences involving basic locomotor and nonlocomotor patterns and their relationships to time, space, and projectiles as they affect growth and development. Lecture 2 hours, activity 2 hours.

424 Movement and Maturation (4)

Prerequisites: KPE 420; ENGL 101; passing WPE score. Integration of theory, research, and practice of maturational factors on motor development from prenatal through later childhood periods; development of portfolio and written research project. Lecture 3 hours, field experience 2 hours per week.

440 Conduct of Athletic Programs (3)

Prerequisite: KPE 160. Administrative and organizational principles applicable to athletic coaching.

441 Motivation in Athletics (3)

Personal qualities of coaches and athletes; suggested philosophies, methods, and techniques of communicating with and motivating athletes for consistent, maximal performance.

445 Sports Information and Game Management (3)

Athletic public relations with emphasis on writing publicity, compiling statistics, producing brochures; electronic media, game management.

450 Dimensions of Physical Education for Individuals with Disabilities (4)

Prerequisite: KPE 330. Conditions requiring special physical education, including: learning disabilities, retardation, neurological and orthopedic conditions. Lecture 3 hours, practical teaching in programs for exceptional students 2 hours.

452 Physical Education for Severely Handicapped (4)

Prerequisite: KPE 450. Etiology, movement characteristics, learning problems of severely handicapped individuals (trainable mentally retarded, severely multiple handicapped, seriously emotionally disturbed, and autistic). Lecture 3 hours, practicum 3 hours.

453 Physical Education for Learning Handicapped (4)

Prerequisite: KPE 450. Problems of learning handicapped pupils in physical activity context; implications for physical education program development. Lecture 3 hours, practicum 2 hours.

454L,P Special Topics in Physical Education (1-4)

Prerequisite: Varies with topic. Current issues and interests of students in physical education and related experimental areas, as announced in *Schedule of Classes*. May be repeated as subject matter changes. Lecture and activity.

455 Motor Assessment of Exceptional Students (4)

Prerequisite: KPE 450. Study of prevalent disabilities, with implications for program development, organization, administration, and evaluation of adapted physical education at elementary and secondary school levels. Evaluation and diagnosis of motor problems; prescription of adapted, developmental, and remedial physical education programs for elementary and secondary school students. Practical experience with assessment required.

456 Physical Education for Physically Handicapped (4)

Prerequisite: KPE 450. Study of prevalent disabilities; implications for program development, organization, administration, and evaluation of adapted physical education students in elementary and secondary schools. Lecture 3 hours, practicum 2 hours.

457 Interdisciplinary Approach to Physical Education for Exceptional Students (4)

Roles and responsibilities of recreation, psychology, special education, nursing, physical and occupational therapy, and other professions in physical education of exceptional students.

**458 Physical Aspects of Aging (4)
(also listed as NTRS 458)**

Aging process, fitness, and nutrition; influences on wellness, life styles, and recuperation; strategies for optimizing physical quality of life for elderly.

459ABC Internship in Adapted Physical Education (2, 2, 1)

Prerequisites: Physical education core, 12 units in adapted physical education specialization, minimum *B* (3.0) grade point average, and recommendation of major adviser. Directed experience with weekly adviser conference. Students must complete minimum of 200 hours of internship experience. Segments A, B, and C need not be taken in sequence.

459A Clinic (80 hours)**459B School/agency/institution (80 hours)****459C Research (40 hours)****471 Computer Applications in Physical Education (3)**

Introduction of computer technology in physical education; laboratory equipment interface techniques; software applications in physical education. Lecture 2 hours, laboratory 3 hours.

473 Motor Learning (3)

Prerequisite: KPE 365. Neurophysiological and psychosocial bases of motor learning in relation to skill acquisition and performance. Lecture 2 hours, laboratory 3 hours.

474A Proseminar: Field Evaluation of Fitness (4)

Prerequisite: KPE 360. Analysis of physical fitness theory and assessment techniques utilized in the field e.g., field tests for aerobic capacity, strength, muscular endurance, body composition, flexibility, motor skill, pulmonary function, blood pressure, and various anthropometric variables. Lecture 3 hours, activity 3 hours.

474B Proseminar: Laboratory Assessment Techniques (4)

Prerequisite: KPE 474A. Physical fitness and performance assessment techniques employed within the laboratory environment; electrocardiography, electromyography, closed and open circuit indirect calorimetry stress testing; hydrodenitometry, respirometry and cardiocirculatory. Lecture 3 hours, laboratory 3 hours.

475 Proseminar: Exercise Prescription and Implementation (4)

Prerequisite: KPE 474B. Development and implementation of exercise prescription for aerobic endurance, anaerobic power, strength, flexibility, and optimal body composition in apparently healthy special and general populations. Lecture 3 hours, laboratory 3 hours.

476 Administration of Fitness Programs (4)

Prerequisites: KPE 474B, 475. Conducting fitness programs in private and public sectors, implementing exercise prescriptive techniques, feasibility studies, marketing fitness services, staffing, equipment purchasing, structuring the organizations.

477 Proseminar: Biomechanical Analysis of Human Motion (3)

Prerequisite: KPE 340. Kinematic and kinetic bases of human motion; techniques of cinematographic analysis of sports skills and human movement. Lecture 2 hours, laboratory 3 hours.

478 Proseminar: Structural Kinesiology (3)

Prerequisite: KPE 340. Structure of human body in gross motor movement; structural analysis of motor skills and conditioning exercises. Lecture 2 hours, laboratory 3 hours.

492A Field Experience in Exercise Science (2)

Prerequisite: KPE 475. Directed on-campus practicum in a career-related setting. Regular conferences with supervisor. Total of 100 hours. Graded *CR/NC*.

492B Field Experience in Exercise Science (2)

Prerequisite: KPE 492A. Directed practicum in a career-related role in a community setting. Regular conferences with supervisor. Total of 100 hours. Graded *CR/NC*.

496 Special Projects (1-3)

Prerequisites: Senior or graduate standing, consent of department chair and faculty member. Participation under faculty supervision in planning, preparing, presenting, and coaching Cal State L.A.-sponsored intramural, extramural, or intercollegiate athletic activities. May be repeated for credit.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated for credit.

Graduate Level Courses (KPE)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: KPE 498, 499

Classified graduate standing is required for admission to 500-level courses.

502 Research Design in Human Performance (4)

Prerequisites: Undergraduate major or minor in physical education. Must be completed within first 12 units of the student's approved program. Analysis, evaluation, and interpretation of research studies and investigation in physical education. Seminar 3 hours, laboratory 3 hours.

503 Applied Statistics in Human Performance (4)

Prerequisites: KPE 330, 502. Analysis of variables related to human performance, application of statistical procedures in basic research design. Lecture 3 hours, laboratory 3 hours.

505 Measurement and Evaluation in Physical Education (4)

Application of advanced level measurement techniques and statistical procedures used in physical education and field measurements of physical fitness parameters. Emphasis on development of measurement procedures, tests and establishing norms. Lecture 3 hours, laboratory 3 hours.

507 Sport in a Multicultural Society (4)

An examination of sport and physical activity as a cultural phenomenon with emphasis on diverse populations in an urban setting. Seminar 3 hours, laboratory 3 hours.

510 Effective Teaching in Physical Education: Research, Assessment and Development (3)

Prerequisites recommended: EDSE 521. An examination of the content of effective teaching, recent research and development literature in both assessment, alternative models for data analysis, inference, and results of research in physical education teaching.

513 Staff and Organizational Development in Physical Education (3)

The school as a social setting, and the processes through which it functions, with particular reference to the physical education curriculum.

514 Analysis and Supervision of Physical Education (3)

Prerequisites recommended: EDSE 520. Models of educational supervision and the possible use of these models in physical education programs. Informal and formal tools of sport pedagogy such as systematic observation will be covered.

515 Seminar: Program Planning in Physical Education (3)

Prerequisites or corequisite: KPE 502. History, background, philosophy, and current types of instructional programs in physical education at elementary and secondary school levels; methods of planning functional physical education curricula.

518 Behavior Management in Physical Education (3)

Prerequisites recommended: COUN 501; KPE 502, 510. Clarification of personal attitudes and values relating to class behavior management, discipline and behaviors affecting students in physical education.

521 Seminar: Physical Conditioning (3)

Prerequisites or corequisite: KPE 502. Various methods of physical conditioning for physical education programs at elementary, secondary, and college levels. Lecture 2 hours, laboratory 3 hours.

522 Seminar: Exercise in Stressful Environments (3)

Prerequisites: KPE 360, 502 (may be taken concurrently). Capacity to exercise in environments of heat, cold, air pollution, altitude, air and water pressure; adaptation techniques during exercise.

528 Seminar: Motor Learning (3)

Prerequisites or corequisite: KPE 502. Nature, bases, and characteristics of human movement and acquiring of motor skills.

532 Concepts of Sensory-Motor Processes (4)

Prerequisites: KPE 450, 502 (may be taken concurrently). Neurophysiological concepts of sensory-motor processes; theoretical models, assessment techniques, practical applications for exceptional individuals. Lecture 3 hours, laboratory 2 hours.

535 Leadership Perspective of Adapted KPE (3)

Prerequisites or corequisite: KPE 502. Advanced techniques for staff, program, curriculum development in adapted physical education; effect of current legislation on role of adapted physical educator; design and development of curricular materials; staff development.

536 Seminar: Problems in Adapted KPE (3)

Prerequisites: KPE 450, 502 (may be taken concurrently). Individual investigation of problems in administration, supervision, instruction, curriculum, evaluation of adapted physical education.

547 Seminar: Selected Topics in Physical Education and Human Performance (3-4)

Advanced study of selected contemporary topics in physical education and human performance. May be repeated to maximum of 16 units as topic changes.

570 Neuromuscular Aspects of Physical Performance (4)

Prerequisites: KPE 330, 360, 474A. Neuromuscular factors involved in human movement. Special emphasis upon the nervous and muscular systems related to the expression and enhancement of muscular strength, endurance and power. Lecture 3 hours, laboratory 3 hours.

571 Cardiorespiratory Aspects of Physical Performance (4)

Prerequisites: KPE 570. In-depth analysis of the functions of cardiovascular and pulmonary systems during rest, physical performance and recovery, and their adaptation to exercise training. Seminar 3 hours, laboratory 3 hours.

572 Exercise Prescription for Special Population (3)

Prerequisites: KPE 475. Examination of the physiological responses and adaptations to exercise of special populations. Includes exercise testing and prescription. Emphasis on exercise limitations and responses which differ from the normal populations.

573 Exercise Intervention in Cardiac Rehabilitation (3)

Prerequisites: KPE 475. Development and administration of cardiac rehabilitation programs with a special emphasis on exercise testing, prescription, and training of cardiac patients in outpatient phases.

598 Graduate Directed Study (1-3)

Prerequisites: KPE 502, instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 9 units. Graded CR/NC.

599 Thesis or Project (1-6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor. Independent research resulting in a thesis or project. Must be repeated to maximum of 6 units. Graded CR/NC.

Program in

Latin American Studies

School of Natural and Social Sciences

PROGRAM OFFICE

King Hall B3006

Phone: (323) 343-2180

Email: las@calstatela.edu

Website: www.calstatela.edu/academic/LAS

The Program and Its Mission

Latin American Studies is an interdisciplinary program that combines subject matter from several academic disciplines to give the student a broad background encompassing the historical, social, cultural, and geographic aspects of the region and training in the Spanish Language. It offers students interested in Latin America the opportunity to pursue a major in this field of study leading to the Bachelor of Arts and Master of Arts degrees. The undergraduate program is described below, followed by the *Graduate* program section.

The Faculty**Program Coordinator:** Marjorie Bray**Associate Coordinator:** Enrique Ochoa.

Instruction for the Latin American Studies program is provided by members of the faculty who are experts on Latin America from cooperating disciplines in the Schools of Natural and Social Sciences, Arts and Letters, Business and Economics, and the Charter School of Education as well as instructors in Latin American Studies.

Undergraduate Programs

Bachelor of Arts Degree

The Bachelor of Arts degree program in Latin American Studies affords the student a wide range of career opportunities in the U.S. and abroad. The growth of the Latina/Latino population in the U.S. has produced an increasing need for trained persons with a knowledge of the region to work in government, teaching, not-for-profit organizations, business, and other fields.

Requirements for the Bachelor of Arts Degree (64-80 units)

The major requires 64-80 units depending on the option selected and the student's language competence as demonstrated by examination. The General Option requires 64-80 units. Students seeking to combine the study of Latin American Studies with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below. This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

General Option (64 - 80 units)**Lower Division Required Courses (12 units)**

ANTH 250	Cultural Anthropology (4)
GEOG 155	Cultural Geography (4)
LAS 150	Introduction to Latin American Studies

Language Requirement (4-20 units)

SPAN 200ABC	Intermediate Spanish (4,4, 4) or Demonstrated Competency (0)
SPAN 300A	Composition and Grammar (4) or
SPAN 315	Spanish-American Civilization (4) or
PORT 100AB	Elementary Portuguese (4, 4)

Upper Division Courses (48 units)**Upper Division Required Courses (8 units)**

LAS 497A	Interdisciplinary Approaches to Latin American Studies (4)
LAS 497B	Proseminar: Methodology, Research, Writing on Selected Topics in Latin American Studies (4)

Select 20 units from the following, including at least one course from each department and 2 courses from each geographical region (Central America and the Caribbean, and South America)

ANTH 404	Peoples of South America (4)
ANTH 408	Peasant Cultures of Middle America (4)
GEOG 427	Mexico and Central America (4)
GEOG 428	South America (4)
POLS 451	Latin American Politics (4)
PAS/POLS 456	Politics of the Caribbean and Central America (4)

Select 8 units in History:

HIST 459	Sexuality in the Americas (4)
HIST 461	Latin America: Colonial Period (4)
HIST 462	Latin America: 1810–1914 (4)
HIST 463	Latin America: 1914–Present (4)
HIST 464	Central America Since Independence (4)
HIST 465	Brazil (4)
CHS/HIST 466A	Colonial Mexico (4)
CHS/HIST 466B	Building The Mexican Nation (4)
CHS/HIST 466C	The Mexican Revolution and its Legacy (4)
HIST 469	Indigenous Peoples of Mexico (4)

Select 12 units in Elective Courses

Select one course from Art, Music, Philosophy or Spanish or LAS 335 or LAS/PAS 342. Four units may be selected from 499 courses in Anthropology, Chicano Studies, Geography, History, Latin American Studies, Philosophy, Political Science, or Spanish. Select from following courses, with adviser approval:

*ANTH	404, 408, 454L
ART	446
BCST/LAS	434
CHS	311, 400, 406, 420, 430, 444, 446, 468
CHS/HIST	466ABC, 467
ECON	460
GEOG	333, 427, 428, *496, *497
HIST	360, 444AB, *450, *451, 459, 461, 462, 463, 464, 465, 469
LAS	335, 424, 450
LAS/PAS	342
LAS/PAS/POLS	360
MUS	458
PAS	423
PAS/POLS	456
PHIL	433
POLS	451
*POLS	454
SOC	442
SPAN	300AB, 315, 401, 411, 413, 417, 419, 421, 429, *454, *459, *460, 475, 483, 485

*when topic is Latin America

Multiple Subject Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106–111 units)

Refer to the **Undergraduate Studies: General Information** chapter of this catalog for the list of courses in this common core.

Major Courses (20 units)

LAS	150	Introduction to Latin American Studies (4)
LAS	497A	Interdisciplinary Approaches to Latin American Studies (4)
SPAN	200BC	Intermediate Spanish (4, 4)

Major Courses (cont'd)

Select one from the following (4 units):

ART	446	Art of Latin America (4)
MUS	458	Music of Latin America (4)
PHIL	433	Latin American Philosophy (4)
SPAN	300A or 300B	Composition and Grammar (4)
SPAN	315	Spanish-American Civilization (4)
SPAN	401	Introduction to Hispanic Literary Criticism (4)
SPAN	411 or 413	Spanish-American Literature I or II (4)

Social Science (Latin America) Depth Area (20 units)

Select one four-unit course from each area A - D, representing at least four departments, with no more than four units of LAS 450. Also complete area E.

A. The Region

HIST 461, 462, 463
LAS 424, 450

B. Chicano Studies and Mexico

CHS 406, 444, 470
CHS/HIST 466ABC, 467
LAS 450

C. Central America and the Caribbean

ANTH 408
GEOG 427
LAS 450
PAS/POLS 456

D. South America

ANTH 404
GEOG 428
HIST 465
LAS 450 and
POLS 451

E. LAS 497B**Electives (35-40 units)**

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in Latin American Studies

The minor in Latin American Studies is designed to provide students not majoring in Latin American Studies with a concentration of courses that will impart a knowledge of the field and enhance their career opportunities and general knowledge in a focused manner. The minor requires a total of 36 units, 16 in required courses and 20 in electives.

Requirements for the Minor (36 units)**Required Courses (16 units)**

LAS	150	Introduction to Latin American Studies (4)
LAS	497A	Interdisciplinary Approaches to Latin American Studies (4)
LAS	497B	Proseminar: Methodology, Research, Writing on Selected Topics in Latin American Studies (4)
SPAN	200C**	Intermediate Spanish (4)

**Requirement may be met by examination and unit requirement met with courses selected from elective list.

Electives (20 units)

Select 20 units from the following, with courses from at least three fields:

ANTH 404, 408, *454L
 ART 446
 BCST/LAS 434
 CHS 311, 400, 406, 420, 430, 444, 446, 468
 CHS/HIST 466A, 466B, 466C, 467
 ECON 460
 GEOG 427, 428, 333#, 496*, 497*
 HIST 360#, 450*, 451*, 459, 461, 462, 463, 464, 465, 469
 LAS 335, 424, 450, 499
 LAS/PAS 342#,
 LAS/PAS/POLS 360#
 MUS 458
 PAS 423
 PAS/POLS 456
 PHIL 433
 POLS 451, *454
 SOC 442
 SPAN 300AB, 315, 401, 411, 413, 417, 419, 421, 429, 454*,
 459*, 460*, 475, 483, 485

*when topic is Latin America

#no more than two of these courses

The Credential Program

The B.A. degree in Latin American Studies (credential option) has been approved by the California Commission on Teacher Credentialing for the Multiple Subject Teaching Credential and helps students prepare for the cultural and language examinations for the Multiple Subject BCLAD credential. CLAD Emphasis is also available. Consult an adviser in the Division of Curriculum and Instruction for requirements.

Interested students should consult advisers in the Latin American Studies office and the Charter School of Education. Refer to the **Charter School of Education** section of the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Graduate and Postbaccalaureate Programs**Master of Arts Degree**

A Master's degree in Latin American Studies affords students a wide range of career opportunities in the U.S. and abroad. Students are able to tailor their programs to fit career interests and goals. The Program provides training and research as well as opportunity to work with community groups. A Master's degree prepares students to work in policy-making management-level positions, to teach in community colleges, or to pursue Ph.D. study. Opportunities abroad are available to graduates with a master's degree who are qualified to teach at the university level in Latin American educational institutions.

Admission to the MA Program

Admission is governed by University requirements for admission to graduate study. New graduate students must consult with the Latin American Studies graduate adviser before registration to evaluate their program prerequisites and for assistance in planning their program.

Master of Arts Program Requirements

A minimum of 20 units in upper division Latin American content courses is prerequisite to the program; LAS 497A and 497B are corequisites. Students who have not met these requirements through courses taken as an undergraduate must take courses in two or more departments in postbaccalaureate standing. In exceptional cases, the Latin American Studies graduate studies committee may waive a portion of these prerequisites.

Language Requirement

Before they may be advanced to candidacy, students must demonstrate written and oral competence in Spanish or Portuguese by passing a foreign language reading examination (FL 901) in the language selected, as offered by the Department of Modern Languages and Literatures and with approval of that department.

Requirements for the Degree (minimum 45 units)

A total of 45 units is required, with at least 23 in 500-level courses. The program involves study in seminars and lecture courses. It offers considerable flexibility for students to pursue individual interests and particular career goals. Students must have a minimum of 5 graduate level courses, distributed in at least 3 fields, chosen from: anthropology, art, business, economics, education, geography, history, political science, sociology, and Spanish. Other fields may be included in consultation with the adviser. The necessary language proficiency is established by examination. Students have the option of passing a comprehensive examination or writing a thesis as the final phase of the degree program. Those who elect the thesis track work with three members of the faculty in choosing a thesis topic, developing a research plan and writing the thesis. To prepare for the comprehensive examination those who select that option will be given assigned readings to supplement class work by the examining faculty in each of the three fields selected. An oral defense of the thesis or examination completes the degree.

Required Course (4 units)

LAS 508 Seminar: Latin-American Social Systems (4) **or**
 LAS 590 Interdisciplinary Seminar in Latin American Studies (4)

Additional Seminars (19–20 units)

Select 500-level courses from the following (include seminars in at least three disciplines):

*ANTH 501 Seminar: Ethnography (4)
 *ANTH 530 Seminar: Social Organization (4)
 *ANTH 594 Seminar: Problems in Cultural Anthropology (4)
 *ART 501 Seminar: Art History (4)
 *ECON 560 Seminar: Economic Growth in Underdeveloped Areas (3)
 *EDFN 506 Comparative Education (4)
 *GEOG 571 Seminar: Regional Geography (4)

Additional Seminars (cont'd)

*GEOG 575 Seminar: Human Geography (4)
 *GEOG 580 Seminar: Physical Geography (4)
 HIST 561 Seminar: History of Modern Mexico (4)

HIST	562	Seminar: Latin American History (4)
LAS	508	Seminar: Latin American Social Systems (4)
LAS	590	Interdisciplinary Seminar in Latin American Studies (4)
LAS	598	Graduate Directed Study (1–4)
*MKT	543	Seminar: International Marketing (3)
POLS	531	Seminar: Latin American Government (4)
**SOC	514	Seminar: Contemporary Sociological Theory (4)
SPAN	510	Sociolinguistic Patterns in Spanish (4)
SPAN	545	Seminar: Contemporary Spanish-American Poetry (4)
*SPAN	575	Seminar: Hispanic Language (4)
*SPAN	583	Seminar: Contemporary Hispanic Prose (4)
		<i>*when emphasis is on Latin America</i>
		<i>**Area of emphasis should be applied to Latin America</i>

Electives (21–22 units)

Additional units from among Latin American content courses, including appropriate departmental 499 and 598 courses, selected in consultation with the Latin American Studies graduate adviser.

400-level Courses

All 400-level courses listed in the undergraduate major, general option, may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: LAS 497AB

Comprehensive Examinations or Thesis (0, 2–9 units)

Students must successfully complete either comprehensive examinations or a thesis.

Immediately following completion of the comprehensive examinations or thesis, students must pass an oral examination conducted by a three-member faculty committee.

Comprehensive Examinations (0 units)

Comprehensive written examinations about Latin America must be passed successfully in three of the following academic fields: anthropology, art, comparative education, economics, geography, history, marketing, political science, or other fields approved by the graduate committee in Latin American Studies.

Students should expect to take the comprehensive examinations (LAS 596) the quarter they complete all course work on their program and must comply with school and program requirements. Students must notify the Coordinator of Latin American Studies in writing of their intention to take the examinations.

Thesis (2–9 units)

Instead of the comprehensive examinations, students may choose to write an interdisciplinary thesis under the guidance of a three-member faculty committee selected in consultation with an adviser. Students making this choice must enroll in LAS 599, in which a maximum of 9 units may be taken.

List of Courses (LAS) - Undergraduate Level

Lower Division Courses

150 Introduction to Latin American Studies (4)

A multidisciplinary introduction to the history, peoples, social structure, and geography of Latin America with emphasis on the formation of its diverse societies. **GE D**

255 The Diverse Latin American Diaspora in Southern California (4) (also listed as CHS 255)

The formation of and differences among the varied Latin American people in the Southern California region and their participation in contemporary society. **GE D**

Upper Division Courses

335 Race and Culture in the Americas (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Comparative study of race and ethnicity as expressed in the arts and culture of Latin America, the Caribbean and the United States. **GE Theme H**

342 Cultural Impact of Development (4) (also listed as PAS 342)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Impact of colonialism, neocolonialism and globalization on art, literature, music and identity in developing countries. **GE Theme A**

360 Dynamics of Change in the Developing World (4) (also listed as PAS and POLS 360)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Case studies illustrating why the Third World came into being and how it is changing in the context of the globalized world economy. **GE Theme A**

380 Education and Development in the Third World (4) (also listed as PAS and EDFN 380)

Prerequisite: Completion of Basic Subjects (Block A) and one course from Block D. Comparative analysis of the systems of education in the Third World with particular emphasis on their educational problems and issues, and their relationship to economic development and social change. **GE Theme A**

395 Community Service in Latin American Studies (1-4)

Prerequisites: Approval by departmental faculty adviser, acceptance by a community agency. Participation as a volunteer in work of a community agency or activity utilizing professional and/or vocational skills in service to community. Graded CR/NC. May be repeated to maximum of 9 units.

400-Level Courses

All 400-level courses listed in the undergraduate major, general option, may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: LAS 497AB.

424 The United States and Latin America (4)

Examination and analysis of relations between the U.S. and Latin American nations; the inter-American system.

**434 Latin American Radio Documentary Production (4)
(also listed as BCST 434)**

Recommended prerequisites: BCST 320 or two upper division Latin American content courses in history, political science, or Latin American studies. Analysis of political, economic, and cultural issues in Latin America, utilizing primary sources; production of research in the form of broadcasting tapes.

450 Special Studies in Latin American Studies (1-4)

Prerequisites: Upper division standing, others as needed for specific topic. Selected topics in Latin American Studies differ each quarter; examined in manner of undergraduate seminar; individual readings, written/oral reports, discussion. Repeatable to maximum of 12 units as subject matter changes.

497A Interdisciplinary Approaches to Latin American Studies (4)

Prerequisites: LAS 150, Satisfactory completion of the Graduate Writing Assessment Requirement (GWAR). Reading ability in Spanish or Portuguese. Changing perspectives and varied methodological approaches to Latin America over the past five decades; selection of research topic; bibliography preparation.

497B Research and Writing on Selected Latin American Topics (4)

Prerequisite: LAS 497A. Senior course. Development of research skills and paper in English on topic selected in LAS 497A.

499 Undergraduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and final report submitted. May be repeated for credit.

Graduate Level Courses (LAS)

All 400-level courses listed in the undergraduate major, general option, may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: LAS 497AB.

Classified graduate standing is required for admission to all 500-level courses.

508 Seminar: Latin American Social Systems (4)

Recommended prerequisites: ANTH 404 or 408, reading competence in Spanish or Portuguese. Analysis of selected aspects of contemporary Latin American social systems. May be repeated for credit.

590 Interdisciplinary Seminar: Latin American Studies (4)

Prerequisite: LAS 497AB. Interdisciplinary investigation and discussion of selected Latin American topics. May be repeated for credit.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599 Thesis (1-9)

Prerequisites: Instructor consent to act as sponsor, approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 9 units. Graded CR/NC.

Program in**Liberal Studies**

School of Arts and Letters

PROGRAM OFFICE

Engineering and Technology A604

Phone: (323) 343-4100

Email: librlst@calstatela.edu

Website: www.calstatela.edu/academic/aa/lib_stud.htm

Liberal Studies is an interdisciplinary program that offers students the opportunity to pursue a Bachelor of Arts degree grounded in the social sciences and the humanities. The Liberal Studies major provides an appropriate foundation for professional training in education, librarianship, law, medicine, various fields of public service, and business and industry. In addition, with careful selection of electives, students may prepare for graduate study in such areas as American Studies, education, English, and the social sciences.

The Faculty

Assistant Professor of Liberal Studies Program and Co-coordinator: Elena Glasberg,

Professor and Chair of English Department and Co-coordinator: Alfred Bendixen

In addition, faculty are drawn from cooperating departments.

Undergraduate Programs**Bachelor of Arts Degree**

The Bachelor of Arts degree program in Liberal Studies offers two options: the General option and the Multiple Subject Credential option.

The General option provides students with the opportunity to design a major that focuses on understanding oneself, one's cultural heritage, the natural and social world, contemporary issues, and methods of analysis, inquiry, and problem-solving. Courses in methods of interdisciplinary study also cover various topics from an interdisciplinary point of view and provide integrative learning experiences. The program draws extensively from courses throughout the University curriculum.

Students may incorporate preparation for teaching at the elementary school level into the major by completing the Multiple Subject Credential option. Particular requirements and restrictions apply to candidates for teaching. Therefore, early consultation with a Liberal Studies adviser is essential. Refer to the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Advisement

All students who intend to major in Liberal Studies must confer with a Liberal Studies program adviser by the end of the first quarter of residence in order to devise an official degree program.

Requirements for the Major (75-84 units)

The General option for this degree program consists of 84 units. Students seeking to combine the study of Liberal Studies with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below. This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

General Option (84 units)

This option requires completion of 84 units, 20 in Liberal Studies and 64 in the four areas described below; at least 52 of the 84 units must be upper division. Courses that appear more than once in the following lists may be taken for credit in only one theme. With the approval of an adviser, LBS 454 may be repeated one time and applied to one of the four areas. Courses taken for credit within the major cannot be used to meet lower- or upper-division general education requirements; however, students can select general education courses that will serve as prerequisites for courses within the major.

Required Courses (20 units)

LBS 301	Interdisciplinary Investigation (4)
LBS 360	Library Research Techniques (4)
LBS 454	Selected Topics in Liberal Studies (4)
LBS 488	Applied Interdisciplinary Research (4)
LBS 489	Senior Thesis (4)

Area I: Cultural Heritage (16 Units)

Select 16 units from one theme with no more than 9 units from any department. Certain sections of LBS 454 may be used with adviser approval.

Theme 1: The Ancient and Medieval Heritages

ANTH	425
ART	406, 411, 416, 476
ENGL	416, 424, 460, 480
HIST	400A, 410-413, 419, 421, 422, 445
MUS	370
PHIL	311, 452
POLS	410
RELS	300
SPCH	470
TA	462
	Any ancient or medieval language course

Theme 2: European Heritage

ART 421, 436, 451
 ENGL 318–320, 417, 418, 446, 447, 461, 465, 484–486
 FREN 310AB, 461
 GEOG 423
 HIST 400B, 420, 423–431, 437, 439, 440, 442, 446
 MUS 370–372
 PHIL 313, 474
 POLS 411, 450, 455
 SOC 412
 SPAN 310
 TA 463
 Any modern European language course

Theme 3: Cultures of the Developing World

ANTH 350, 401, 404, 408, 410, 413, 414
 ART 431, 446, 481
 CHIN 310
 CHS 400
 ECON 460
 GEOG 424, 425, 427, 428, 430, 433
 HIST 414AB–420, 461, 462, 465, 466, 490AB, 491, 494ABC, 495AB
 JAPN 307, 310, 311
 LAS 424, 435
 LAS/PAS 442, 460
 MUS 457, 458
 PAS 423, 432
 PHIL 433, 435
 POLS 451–453
 SPAN 315
 Any foreign language course relevant to the developing world (Arabic, Chinese, Hebrew, Hindi, Japanese, Korean, Pidgin, Spanish, Swahili, Tagalog, etc.)

Theme 4: United States Cultural Heritage

ANTH 406, 407
 ART 441
 CHS 440, 444
 ECON 350, 471
 ENGL 401, 471–475ABC
 GEOG 421, 431, 446
 HIST 470 – 476, 477, 479
 MUS 450, 451
 PAS 402, 403, 420
 PHIL 430
 POLS 405, 413
 SOC 448, 460
 SPCH 473AB
 TA 313

AREA II: The Natural World (16 units)

Select 16 units from one theme with no more than 9 units from any one department. Certain sections of LBS 454 may be used with adviser approval.

Theme 1: Humanity and Its Natural Environment

ANTH 260, 460–462
 BIOL 101–103, 155, 156, 165, 168, 350N
 BIOL/CHEM/CS/PHYS 358N
 CHEM 101, 102, 103, 152, 158, 159, 160, 353, 380N
 GEOG 160, 410, 415
 GEOL 155, 158, 252, 321, 420N
 PHYS 150, 155
 PSY 170, 401

Theme 2: The Universe and Its Mathematical Rules

ASTR 151, 152, 160
 BIOL 361N
 BIOL 302 or ECON 209 or 309 or PSY 302 or SOC 210AB
 CS 190, 203, 290
 ENGR/GEOG 358 or MATH 274
 GEOG 160
 HIST 400C, 402
 MATH 206, 207, 242
 PHIL 404, 405, 461, 485
 PHYS 150

AREA III: Creative Dimensions (16 units)

Select 16 units from one theme with no more than 9 units from any one department. Certain sections of LBS 454 may be used with adviser approval.

Theme 1: Aesthetics and Religion

ANTH 437, 445
 ART 351, 476, 482
 ART/MUS 455, 456
 BCST 397
 DANC 476, 477
 ENGL 441, 451, 481, 482
 ML 460
 FREN 471
 FSCS 409, 466, 467
 HIST 480
 MUS 351, 355, 452
 PHIL 415, 418, 460, 475
 SOC 445
 RELS 300, 350, 425, 430, 450, 461
 SPCH 467
 TA 311, 312, 480

Theme 2: Creative Use of Leisure

In this theme, you may complete all 16 units in one academic discipline.

Art: With approval of a Liberal Studies adviser and the art instructor involved, you may include any art activity course numbered 202–493 (do not include art history, art appreciation, or literature classes).

ENGL 407, 408

MUS 230, 243ABC, 343ABC and
 With approval of a Liberal Studies adviser and the music instructor involved, you may include any music performance course (do not include music appreciation, literature, theory, or history classes).

SPCH 267 or 367; 268

With approval of a Liberal Studies adviser and the theatre arts and dance instructor involved, you may include any DANC or TA performance courses numbered 100–485 (do not include dance or theatre arts history, appreciation, or theory courses).

AREA IV: The Contemporary Idiom (16 units)

Select 16 units from one theme with no more than 9 units from any department. Certain sections of LBS 454 may be used with adviser approval.

Theme 1: 20th Century Conceptualizations

ANTH 435, 443, 444, 450
 ART 426
 ENGL 308, 340, 358, 405, 406, 451, 475ABC, 486
 GEOG 481
 MUS 372, 451

Theme 1: 20th Century Conceptualizations (cont'd)

PHIL 313, 410, 412, 420, 440, 445, 459
 POLS 411

PSY 308, 410AB, 412AB, 462
 RELS 435
 SOC 414, 425, 426, 441
 SPCH 482

Theme 2: Current Domestic Problems

ANTH 406
 BIOL 361N
 CHS 410, 430
 ECON 350, 390, 433, 440
 ENGL 308, 406
 GEOG 446, 475–477
 HIST 475, 476, 477, 480, 483, 486, 488, 489
 MGMT 308
 PAS 402, 403
 POLS 405, 417, 430
 PSY 422 or SOC 422
 PSY 442, 447
 SOC 430, 447, 448, 460
 SPCH 489

Theme 3: Current International Problems

ANTH 434, 439
 ECON 406, 426, 461, 480
 ENGL 308, 406
 GEOG 370, 441, 476, 477, 481
 HIST 415, 429, 447, 453, 459, 463, 478, 490B, 492, 494C
 POLS 421, 425–427, 446, 450, 455, 459

**Multiple Subject Teacher Preparation Option
 (75-80 units, plus 106-111 common core units)**

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

**Required Multiple Subject Common Core Courses
 (106–111 units)**

Refer to the **Undergraduate Studies: General Information** chapter of this catalog for the list of courses in this common core.

Courses Required for the Option (63-68)

Major Courses (20 units)

LBS 301 Interdisciplinary Investigation (4)
 LBS 360 Library Research Techniques (4)
 LBS 454 Selected Topics in Liberal Studies (4)
 LB6 488 Applied Interdisciplinary Research (4)
 LBS 489 Senior Thesis (4)

Depth Area (20 units)

Select one of the fifteen depth areas listed below.

1. American Civilization (Foundations)

HIST 450 Special Studies in History (4)
 Native Americans (select one from following)
 ANTH 406 or HIST 482 (4)
 Early America (select one from following)
 HIST 470 or 471 (4)
 California (select one from following)
 HIST 488 or 489 (4)
 Topics in U.S. History (select one from following)
 HIST 477, 480, or 485 (4)

2. Ancient World

ANTH 425 Archaeology of the Old World (4)
 HIST 410 Ancient Near East: 4000–323 BC (4)
 HIST 450 Special Studies in History (4)
 Classical World (select one from following):
 HIST 411, 412A, 412B, 413 (4)
 Non-Western World (select one from following)
 HIST 414A, 490A, 494A (4)

3. Earth Science

GEOG 402 Geomorphology (4)
 GEOG 410 Weather and Climate (4)
 GEOG 415 Perspectives on Environment (4)
 GEOL 321 Geology of Southern California (4)
 GEOL/PHYS 350N Evolution of Universe and Earth (4)

4. Humanities (Critical Thinking and Western Civilization)

PHIL 304 Ethics (4)
 PHIL 311 History of Ancient Philosophy (4)
 PHIL 313 History of Modern Philosophy (4)
 PHIL 410 Social and Political Philosophy (4) or
 PHIL 420 Ethics II (4)
 PHIL 470 Theory of Knowledge (4) or
 PHIL 480 Philosophy of Language (4) or
 PHIL 485 Philosophy of Science (4)

5. Humanities (Multicultural Approach to Morality and Values)

PHIL 415 Philosophy of Religion (4)
 RELS 350 Religions in the U.S. (4)
 Select three from following (12 units):
 ART/RELS 450
 PHIL 418, 433, 435
 RELS 300, 410, 425

6. Language (Communication)

SPCH 489 Intercultural Communication (4)
 Select four from following (16 units):
 ANTH 470/ENGL 403
 ENGL 401; PAS 425
 PSY 420
 SPCH 350, 462, 463, 478, 479

7. Literature (Current Trends)

Select five from following:
 ENGL 358, 428, 447, 451, 453, 473, 475C, 479, 486

8. Literature (Multicultural)

ENGL 476 Ethnic Literature in the U.S. (4)

Select four from following (16 units):

CHS 403; ENGL 453, 477

ENGL/PAS 426

FREN 461, 471

FL 460

JAPN 307

PAS 422, 423

9. Literature (Pan-African)

ENGL 477 Black American Literature (4)

PAS 422 Themes in Black Literature (4)

PAS 423 Caribbean Literature (4)

PAS 426 African Literature (4)

PAS 427 Institutional Racism: Black Response in Literature (4)

10. Literature (Traditional)

ENGL 471 American Literature: Beginnings to 1860 (4)

ENGL 472 American Literature: 1860–1914 (4)

ENGL 476 Ethnic Literature in the U.S. (4)

Select one from following (4 units):

ENGL 424, 425, 482, 483

Electives (4 units)Select one 300- or 400-level literature-based ENGL course
or
SPCH 367.**11. Multicultural Arts**

ART 460 Multicultural Approaches to Visual Arts (4)

Select two from following:

ART 431, 446, 461, 481 (8 units)

Select two from following (8 units):

CHS 446; MUS 452, 457, 458; PAS 421

12. Social Science (Geography)

GEOG 370 World Regions (4)

GEOG 415 Perspectives on Environment (4)

GEOG 421 United States (4)

GEOG 431 California (4)

GEOG 446 U.S. Ethnic Communities (4)

13. Social Science (Interdisciplinary Focus on California)

GEOG 432 Metropolitan Los Angeles (4) or

HIST 489 Los Angeles (4)

Select four from following (16 units):

ANTH 407

CHS 445

GEOG 431

HIST 467, 488

POLS 403

14. Social Science (Latin America)Select one four-unit course each from areas A–D,
representing at least four departments, with no more than
four units of LAS 450.

A. The Region

HIST 461, 462, 463;

LAS 424, 450

B. Chicano Studies and Mexico

CHS 406, 444, 467, 470;

CHS/HIST 466;

LAS 450

14. Social Science (Latin America) (cont'd)

C. Central America and the Caribbean

ANTH 408;

GEOG 427;

LAS 450;

PAS/POLS 456

D. South America

ANTH 404

GEOG 428

HIST 465

LAS 450

POLS 451

E. Select one additional four-unit course from any of the
above four areas.**15. Social Science (Mexican-American Studies)**

CHS 405 The Mexican People as Immigrants (4)

CHS 406 Hispanic Communities in U.S. Society (4)

CHS 430 Chicano Political Behavior (4)

CHS 445 History of the Chicano in Los Angeles (4)

CHS 470 Educational Institutions of the Barrios (4)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

BCLAD Credential Emphasis

Students who select a bilingual BCLAD Credential emphasis must consult the Charter School of Education for current requirements which include knowledge of a teaching methodology and a culture and the language of an ethnic group covered by the BCLAD Credential Emphasis program. Familiarity with this information may be tested by approved examinations. The BCLAD Credential Emphasis requires 9 quarter units of a single foreign language.

**Interdisciplinary Minor
in Comparative Linguistics**

This minor is comprised of courses from four departments: Anthropology, Communication Studies, English and Modern Languages. The array of courses offers intellectual stimulation and meets professional demands. Intellectually, the minor allows students to examine the theories, structures, and behaviors of multiple languages. Professionally, for students interested in teaching, the minor provides valuable expertise in language skills; for those interested in writing career, the minor provides opportunities to analyze and create discourse.

Requirements for the Minor (32 units)**Two (2) courses are required (8 units)**

These courses provide a grammatical framework to compare English language constituents with the language and/or behavior constituents addressed in other courses.

ENGL 401 English in America

ENGL 405 Modern Grammar

Three (3) courses are to be selected from the following. (12 units)

These courses address the theoretical or technical aspects of a particular language or language behavior.

- ANTH 471/ENGL 400 Introduction to Linguistics
- ANTH 472 Linguistic Analysis
- ENGL 228 Grammar Review
- FREN 305 French Phonetics
- JAPN 315 Language in Japanese Society
- SPAN 305 Introduction to Spanish Linguistics
- SPAN 400A Spanish Morphology
- SPAN 400B Syntax
- SPCH 450 Communication Theory
- SPCH 462 Non Verbal Communication

Three (3) courses are to be selected from the following (12 units)

These courses address language as it relates to other behaviors, other contexts, or languages.

- ANTH 470/ENGL 403 Language and Culture
- ANTH 230/ ENGL230 Language and Society
- ENGL 301 Introduction to Language
- ENGL 402 History of English
- FREN 403 Contrastive Analysis of French and English Structures
- JAPN 403 Contrastive Analysis of Japanese and English Structures
- JAPN 450 Proseminar in Japanese Linguistics
- SPAN 403 Contrastive Analysis of Spanish and English Structures
- SPAN 461 Proseminar in Spanish Linguistics
- SPAN 463 Language and Communication Behavior
- SPAN 494 Language and Communication Behavior in Childhood

Note:

With the major department's approval, courses that satisfy requirements in this minor may also be used to satisfy major or general education requirements.

Minor in Women's Studies

The Women's Studies minor, which requires 32 units, is a multidisciplinary program comprised of courses in Women's Studies and related areas.

Based on recent contributions of gender scholarship, theory, and history, the Women's Studies minor is designed to examine the influence of gender on the roles, status, and interaction of women and men in society; to increase knowledge of women's contributions to the liberal arts and sciences and the professional fields; and to enhance the ability of women to formulate challenging and satisfying goals and to achieve them.

Both men and women benefit from such a program, which helps them understand the influence of gender and gender role on key aspects of human behavior and interaction in a variety of contexts.

The courses that comprise the minor must be selected with the approval of a Women's Studies adviser.

Requirements for the Minor (32 Units)

Lower Division Required Course (4 units)

- WOMN 200 Introduction to Women's Studies (4)

Upper Division Required Courses (13–16 units)

- *ANTH 438 Sex Roles in Crosscultural Perspective (4) **or**
 - *SOC 441 Sociology of Sex Roles (4)
 - *BIOL 488N/PSY 488 Gender Differences (4)
 - *ENGL/SPCH 385 Sex and Gender in Language and Literature (4) **or**
 - *PHIL 412 Philosophy and Sex Roles (4)
 - WOMN 491 Proseminar: Women's Studies (1–4)
- *Completion of these courses satisfies the upper division general education theme #10, Gender in Human Experience. The 12 required units may be used to satisfy both general education and Women's Studies minor requirements.*

Recommended Electives (12–15 units)

Select 12–15 units (at least 8–11 upper division) with no more than two courses from the same area or discipline, with assistance of a Women's Studies adviser. Courses listed above but not used to satisfy the GE theme requirement may be used as electives for the minor. Other approved electives appear below.

Lower Division

- CHS 230

Upper Division

- ENGL 453
- FSCS 424
- HIST 485, 486
- HS 455
- PAS 412
- POLS 442
- PSY 419
- RELS 435
- SPCH 479
- WOMN 454, 499

The Credential Program

A diversified major program in Liberal Studies has been approved by the California Commission on Teacher Credentialing for the **Multiple Subject Teaching Credential** described earlier in this section. Students may incorporate preparation for teaching into the major by completing the Multiple Subject Credential option. Particular requirements and restrictions apply to candidates for teaching; therefore, early consultation with Liberal Studies advisers is essential. Students should also contact advisers in the Charter School of Education regarding admission to and requirements of the credential program.

List of Courses - Undergraduate Level

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

Courses in Liberal Studies (LBS)

Lower Division Courses

200 Methods and Materials of Library Research (4)

Development of library research skills. Survey and analysis of major categories of research tools and their application in various disciplines.

234 Multicultural Arts, L. A. (4) Cultural, historical, and social context for theatrical, artistic, and musical events. Race, ethnicity, class, and gender in the arts. Attendance at performances and museums; discussion with artists and experts. **GE C2**

Upper Division Courses

301 Interdisciplinary Investigation (4)

Prerequisite: ENGL 102. Principles and techniques of interdisciplinary problem solving; nature and limitations of knowledge, evaluation of evidence, strategy and methods of integrating materials drawn from different disciplines.

360 Library Research Techniques (4)

Prerequisite: LBS 301. Library research techniques; major reference works; on line research; principles of problem definition, organization, and style. Prospectus for undergraduate thesis.

454 Selected Topics in Liberal Studies (1-4)

Prerequisites: Upper division standing, and others as needed for specific topic. Intensive study of selected topic from interdisciplinary perspective; subjects vary. May be repeated to a maximum of 8 units for credit.

488 Applied Interdisciplinary Research (4)

Prerequisites: LBS 301 and 360. Students refine research strategies; implement research of textual and electronic sources; consult with experts; synthesize materials; polish modes of presentation; prepare interdisciplinary bibliography and project outline; write detailed thesis proposal.

489 Senior Thesis (4)

Prerequisites: Satisfactory completion of the graduation writing assessment requirement (GWAR), LBS 360, senior standing, approval of prospectus for undergraduate thesis. Advanced principles and techniques of interdisciplinary problem solving; supervised thesis.

499 Undergraduate Directed Study (1-4)

Prerequisites: Instructor consent to act as sponsor, approval of coordinator, minimum 2.5 grade point average. Projects must be approved before registration, progress meetings held regularly, and final report submitted. May be repeated for credit.

Courses in Women's Studies (WOMN)

Lower Division Course

200 Introduction to Women's Studies (4)

Concepts of women's studies; examination of current areas of concern to women.

203 Women of Color in the U.S. (4)

Examines how ethnicity, class, gender, and sexuality shape the lives of women of color in the U.S., including such ethnic groups as African-Americans, Asian-Americans, Chicanas/Latinas, and Native-Americans. **GE D**

Upper Division Courses

454 Special Topics in Women's Studies (4)

Prerequisites: As needed for specific topic. Topics of special interest in women's studies as announced in Schedule of Classes. May be repeated to total of 8 units as subject matter changes.

491 Proseminar: Women's Studies (1-4)

Prerequisite: WOMN 200. Topics of special interest in women's studies as announced in Schedule of Classes. May be repeated for total of 4 units.

499 Undergraduate Directed Study (1-8)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration, progress meetings held regularly, and final report submitted. May be repeated to total of 8 units as subject matter changes.

Department of

Management

School of Business and Economics

DEPARTMENT OFFICE

Simpson Tower F717

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Website: www.calstatela.edu/dept/mgmt/index.html

The Department of Management prepares students to lead the businesses and organizations of society. The many aspects of the field of management are represented by three options in the Bachelor of Science in Business Administration, three certificate programs, a Master of Science in Business Administration, and a Master of Science in Health Care Management.

The Faculty

Professors: Abdallah M.A. Aish, Mohammad Ala, William G. Baker, Peter D. Hechler, Rauf-Ur R. Khan, Kwok Keung (Kern) Kwong, Mary Pat McEnrue, James M. Rosser, John F. Steiner, Paul V. Washburn (Chair).

Associate Professors: Blair Berkley, William Cordeiro, Cheng Li, Laura L. Whitcomb.

Assistant Professors: Carol Blaszczyński, Angela Young.

Emeriti: Laird B. Allison, Keith R. Blunt, George Burstein, Donald G. Malcolm, William C. Waddell.

Undergraduate Programs

Bachelor of Science Degree in Business Administration with Options in:

- *Administrative Management (100 units)*
- *Human Resources Management (100 units)*
- *Production and Operations Management (100 units)*

Advisement: Department of Management.

The BSBA degree with any of these options requires completion of the BSBA Core (72 units) and one set of Option Requirements (28 units)

Core Requirements for the Bachelor of Science in Business Administration (72 units)

Lower Division Required Courses (28 units)

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)

Select on from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for Administrative Management (28 units)

This option develops competence in administrative and supervisory techniques required of managers, supervisors, and comparable administrative officers in industry, finance, government, and labor.

Required Courses (20 units)

MGMT 460	Case studies in Operations Management (4)
MGMT 461	Management Theory and Practice (4)
MGMT 462	Comparative Management (4)
MGMT 479	Seminar: Business in Its Social Setting (4)
MGMT 489	High Performance Management (4)

Electives (8 units)

Select two adviser-approved courses from 400-level MGMT courses and FIN 434.

Option Requirements for Human Resources Management (28 units)

The option prepares students for careers in human resources management in both the public and private sectors. Career paths include generalist and specialist, positions in human resources planning, recruitment and selection, compensation and benefits, job analysis, training and development, employment and labor relations, and other essential human resources functions.

Required Courses (20 units)

MGMT 473	Strategic Human Resources Management (4)
MGMT 474	Compensation Management (4)
MGMT 477	Staffing, Recruitment and Selection (4)
MGMT 489	High Performance Management (4)
ECON 472	Labor Relations and Collective Bargaining (4)

Elective Courses

Select 8 units from the following

MGMT	469, 470, 471, 475, 476
POLS	463, 464

Option Requirements for Production and Operations Management (28 units)

This Option teaches operations management, including operative planning and control, quality management, robotics management, and integrated manufacturing systems. Students are prepared for related assignments in manufacturing, nonmanufacturing firms, and government.

Required Courses (20 units)

MGMT 460	Case Studies in Operations Management (4)
MGMT 464	Production and Inventory Management (4)
MGMT 480	Managerial Issues of Automation (4)
MGMT 489	High Performance Management (4)
MGMT 496	Operations Research (4)

Electives

Select 8 units from the following:

MGMT 463	Process Design & Improvement (4)
MGMT 465	Purchasing Management (4)
MGMT 467	Quality Control (4)

Certificate in General Management (24 units)

The certificate program in general management is designed to prepare non-management option business students and non-business students for employment in a general management position, and to provide working and professional people with the general management knowledge necessary for rapid career advancement.

This certificate program is jointly sponsored by Continuing Education and the Department of Management. Non-matriculated students (those who are not formally admitted to the University) are eligible to enroll in the program through Open University enrollment with the consent of the instructor.

A minimum of 24 units is required. Twelve units are required courses and twelve units are electives. Upon completion of all course requirements, the participants will be awarded a Certificate in General Management, authorized by the Management Department and Continuing Education.

Required Courses (12 units)

MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organization Behavior (4)
MGMT 461	Management Theory and Practice (4)

Elective Courses (12 units)

Select 12 units from the following:

MGMT 308	Business Responsibilities in Society (4)
MGMT 460	Case studies in Operations Management (4)
MGMT 462	Comparative Management (4)
MGMT 463	Process Design and Improvement (4)
MGMT 465	Purchasing Management (4)
MGMT 467	Quality Control (4)
MGMT 468	Small Business (4)
MGMT 469	Training and Development (4)
MGMT 470	Managerial Leadership and Motivation (4)
MGMT 471	Managing Positive Employment Relations (4)
MGMT 473	Strategic Human Resources Management (4)
MGMT 474	Compensation Management (4)
MGMT 477	Staffing, Recruitment and Selection (4)

Elective Courses (cont'd)

MGMT 479	Seminar: Business in Its Social Setting (4)
MGMT 480	Managerial Issues in Automation (4)
MGMT 485	Project Management (4)
MGMT 490	Service Management (4)
MGMT 496	Operation Research (4)

Certificate in Human Resources Management (24 units)

The certificate program in human resources management is designed to prepare non-management option business students and non-business students for employment in a human resources management position, and to provide working and professional people with the human resources management knowledge necessary for rapid career advancement.

This certificate program is jointly sponsored by Continuing Education and the Department of Management. Non-matriculated students (those who are not formally admitted to the University) are eligible to enroll in the program through Open University enrollment with the consent of the instructor.

A minimum of 24 units is required. Sixteen units are required courses and eight units are electives. Upon completion of all course requirements, the participant will be awarded a Certificate in Human Resources Management, authorized by the Management Department and Continuing Education.

Required Course (16 units)

MGMT 307	Management and Organization Behavior (4)
ECON 472	Labor Relations and Collective Bargaining (4)
MGMT 473	Strategic Human Resources Management (4)
MGMT 474	Compensation Management (4)

Elective Courses (8 units)

Select 8 units from the following:

MGMT 469	Training and Development (4)
MGMT 470	Managerial Leadership and Motivation (4)
MGMT 471	Managing Positive Employment Relations (4)
MGMT 475	Current Topics and Cases in Human Resources Management (4)
MGMT 476	Employee Interviewing (4)
MGMT 477	Staffing, Recruitment, and selection (4)
MKT 459	Intercultural Business Communication (4)

Certificate in Operations Management (24 units)

The certificate program in operations management is designed to prepare non-management option business students and non-business students for employment in an operations management position, and to provide working and professional people with the operations management knowledge necessary for rapid career advancement.

This certificate program is jointly sponsored by Continuing Education and the Department of Management. Non-matriculated students (those who are not formally admitted to the University) are eligible to enroll in the program through Open University enrollment with the consent of the instructor.

A minimum of 24 units is required. Sixteen units are required courses and eight units are electives. Upon completion of all course requirements, the participant will be awarded a Certificate in Operations Management, authorized by the Management Department and Continuing Education.

Required Courses (16 units)

MGMT 306	Production and Operations Management (4)
MGMT 460	Case Studies in Operations Management (4)
MGMT 464	Production and Inventory Management (4)
MGMT 467	Quality Control (4)

Elective Courses (8 units)

Select 8 units from Group 1 **or**

4 units from Group 1 **and** 4 units from Group 2:

Group 1

MGMT 463	Process Design and Improvement (4)
MGMT 465	Purchasing Management (4)
MGMT 468	Small Business Management (4)
MGMT 480	Managerial Issues in Automation (4)
MGMT 485	Project Management (4)
MGMT 488	Managing Service Delivery in a Multicultural Marketplace (4)
MGMT 490	Service Management (4)
MGMT 496	Operations Research (4)

Group 2

MGMT 307	Management and Organization Behavior (4)
MGMT 461	Management Theory and Practices (4)
MGMT 462	Comparative Management (4)
MGMT 470	Managerial Leadership and Motivation (4)
MGMT 473	Strategic Human Resources Management (4)

Graduate and Postbaccalaureate Programs

Master of Science Degree in Business Administration with Option in Management (45 units)

This is a specialized degree program permitting concentration and research in one of several options.

Admission to the Program

The application must include three letters of recommendation from either employers or academicians.

Students are required to complete 36 units of preparatory business and related courses for admission to classified graduate standing for the M.S. degree in Accountancy, the M.S. degree in Business Administration, and the M.B.A. degree.

The 36-unit requirement can be met either by taking the courses listed below or by submitting transcripts demonstrating that the equivalent subject material has been successfully completed either at the undergraduate or graduate level. In addition, competency must be demonstrated in calculus, statistics, and the use of computers. The competency requirement can be met by successfully passing competency exams in each area of by submitting transcripts showing that the subject matter has been successfully completed at either the undergraduate or graduate level.

ACCT	260R, 360R
ECON	311R
FIN	261R, 363R,
MGMT	361R, 366R, 367R or 368R
MKT	364R

In addition to completing the 36 quarter units of acceptable basic business courses listed above, applicants must have an approved graduate degree program on file in the Graduate Programs Office.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 41 units in 500-level courses.

Required Core (24–27 units)

ACCT 503	Quantitative Approach to Managerial Decisions (4)
CIS 504	Management Information Systems (4)
ECON 502	Economic Analysis and Business Operations (4)
MGMT 501	Administrative Behavior and Systems Management (4)
MGMT 594	Policy Integration and Strategy (3)
MGMT 598	Graduate Directed Study (1)

Additional 598 courses are to be taken for 4-7 units selected with advisor approval.

Thesis (5 units)

BUS 599AB	Thesis (2, 3)
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Required Courses for the Option (9 units)

MGMT 560	Seminar: Strategic Planning (3)
MGMT 561	Seminar: Organizing (3)
MGMT 562	Seminar: Control (3)

Electives (4–7 units)

Master of Science Degree in Health Care Management

The Master of Science degree in Health Care Management assists people presently or previously employed in health care settings to develop the necessary managerial skills and awareness of the most recent innovations in health care delivery systems to fulfill the responsibilities of management positions in the industry.

The program's unique interdisciplinary character permits students to take courses in many disciplines, including psychology, nursing, computer information systems, finance, and labor relations.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must meet the following requirements:

A 2.75 grade point average or above in the last 90 quarter units.

A résumé that documents a minimum of one year recent full-time work experience or equivalent in a health care setting.

Two recommendations from persons who have supervised the applicant's work in a health care setting (send to Health Care Management Advisory Committee, Department of Management, School of Business and Economics, prior to May 15 for admission to Summer Quarter, August 1 for Fall Quarter, November 15 for Winter Quarter, and February 15 for Spring Quarter).

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 32 units in 500-level courses.

Required Courses (28 units)

MGMT 472	Health Care Marketing Management (4)
MGMT 478	Financial Management of Health Care Institutions (4)
MGMT 500	Management (4)
CIS 581	Health Care Information Systems (3)
CIS 598	Graduate Directed Study (1)
MGMT 564	Labor Relations Aspects of Health Care Delivery (2)
MGMT 576	Seminar: Managing Health Care Organizations (3)
MGMT 598	Graduate Directed Study (1)
NURS 562	Human Resource Utilization in Health Care Organizations (2)
NURS 564	Seminar: Health Care Administration (2)
MGMT 595	Advanced Field Study (2) <i>or</i>
NURS 595	Advanced Field Study (2)

Electives (17 units)

Select 17 units of 400 or 500-level courses with prior adviser approval.

Comprehensive Examination (0 units)

Students should expect to take the comprehensive examination (BUS 596) the quarter they complete all required courses and the quarter they complete all work on the program and must comply with school and departmental regulations.

Minor in Management

A minor in management is available for students majoring in other fields. Twenty units are required. A minimum of C (2.0) grade point average is required on all course work taken to complete the minor program. A minimum of 12 units must be taken in residence at California State University, Los Angeles. The minor will be noted on the transcript, but the minor requirements must be completed before the degree is granted.

Requirements for the Minor (20 units)

Required Courses (12 units)

MGMT 307	Management and Organizational Behavior (4)
MGMT 461	Management Theory and Practice (4)
MGMT 470	Managerial Leadership and Motivation (4)

Electives (8 units)

Select 8 units from the following in consultation with major and minor program advisors:

MGMT 462	Comparative Management (4)
MGMT 468	Small Business Management (4)
MGMT 473	Strategic Human Resources Management (4)
MGMT 485	Project Management (4)
MGMT 489	High Performance Management (4)
MGMT 490	Service Management (4)

List of Courses (MGMT) - Undergraduate Level

Upper division standing is prerequisite to enrollment in 300- and 400-level MGMT courses.

Upper Division Courses

301 Business Communications (4)

Prerequisites: ENGL 102,* UNIV 400, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Principles of business communication; emphasis on clear and correct written communication as a tool for business decision-making.

*Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

306 Production and Operations Management (4)

Prerequisites: ECON 209, MATH 242. Analysis and applications of concepts and techniques of the quantitative approach, systems analysis, and operations analysis to managerial functions, with emphasis on production.

307 Management and Organizational Behavior (4)

Analysis of management process with emphasis on business environment; interpersonal and intergroup processes and relationships in organizations.

308 Business Responsibilities in Society (4)

Introduction to the business person's responsibilities and obligations in contemporary society; principles and problem-solving techniques related to major social problems confronting business organizations.

401 Business Research and Report Writing (4)

Prerequisites: ENGL 102,* senior or graduate standing. Reports in business, education, and government; emphasis on collecting data and developing findings, conclusions, and recommendations. Students conduct research and write a report in an area of interest.

*Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

454 Special Topics in Management (1-4)

Prerequisite: Varies with topic; see Schedule of Classes for specific requirement. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

460 Case Studies in Operations Management (4)

Prerequisite: MGMT 306. Case studies are used to illustrate product and process design, technology management, facilities design, location and layout, capacity and inventory management, and quality improvement in manufacturing and service firms.

461 Management Theory and Practice (4)

Prerequisite: MGMT 307. Undergraduate seminar covering development of theory of management through analysis and integration of fundamental relationships and principles; current and past practices analyzed in planning, organizing, directing, and controlling.

462 Comparative Management (4)

Prerequisite: Senior or graduate standing. Identification and analysis of management systems in differing national, functional, or institutional settings; impact of economic, social, political, and cultural variables on management systems; universality of management principles.

463 Process Design & Improvement (4)

Prerequisite: MGMT 306 or instructor's consent. Operations Management issues related to the utilization of physical, human resources, technological and other interlocking factors in determining and improving the ways of organizing and doing work in manufacturing and service companies.

464 Production and Inventory Management (4)

Prerequisite: MGMT 306. Design of information and decision systems for allocating resources and scheduling activities; development of conceptual structures guiding integrated production and inventory systems in manufacturing environments; introduction of computerized MRP systems.

465 Purchasing Management (4)

Prerequisite: MGMT 306. Analysis and application of purchasing principles and procedures; organization of purchasing departments and relation to other departments; criteria for make-or-buy; supplier selection; quality, value, and cost analysis; supplier negotiations.

466 Managerial Innovation (4)

Prerequisite: MGMT 307. Intensive investigation of managerial innovation through analysis of cases; determinants, strategies, and impact of invention, adoption and implementation of new techniques and approaches in managing organizations.

467 Quality Control (4)

Prerequisite: ECON 309. Control of quality of manufactured products by statistical methods; control charts for variables, fraction defective, defects per unit; acceptance sampling; single, double, and multiple sampling methods; sampling tables.

468 Small Business Management (4)

Prerequisite: Majority of core courses. Use of case study method to investigate and analyze problems related to plant location, labor relations, organization control, finances, taxation, and others of interest to small business entrepreneur.

469 Training and Development (4)

Principles, methods, and procedures for orienting, inducting, developing skill-building programs for training and educating/developing employees at all levels of business, governmental, and third sector organizations.

470 Managerial Leadership and Motivation (4)

Prerequisite: MGMT 307 or NURS 488. Nature, resources, strategies, and models of complex organizations; case analyses of process of managerial leadership, motivation, interpersonal relationships in work groups; impact on organizational effectiveness.

471 Managing Positive Employment Relations (4)

Prerequisite: MGMT 473. Principles, methods, and processes for creating and managing positive relationships with individual employees at all levels of an organization, and with employees who are members of labor organizations (union or nonunion).

472 Health Care Marketing Management (4)

Prerequisite: Senior or graduate standing. Methods used by health care providers to forecast needs for specific health services in their communities; hospital marketing strategies and cases; special problems and issues in marketing health care services.

473 Strategic Human Resources Management (4)

Prerequisite: MGMT 307. Principles, methods, and procedures in management of human resources; development and objectives of human resources management, planning, legal compliance, job analysis, recruitment, selection, training and development, compensation, and employment relations.

474 Compensation Management (4)

Prerequisite: MGMT 473. Theory and practices of wage and salary administration: job analysis and preparation of job descriptions, use of job evaluation scales, establishment of pay systems, performance appraisal, and additional compensation techniques.

475 Current Topics and Cases in Human Resources Management (4)

Prerequisite: MGMT 473. Application of human resources management to case emphasizing proficiency in analyzing and managing current issues related to human resources planning, recruitment, selection, compensation, employment relations, and other human resources functions.

476 Employment Interviewing (4)

Prerequisite: MGMT 473. Principles, methods, and procedures in effective interviewing and selection of employees; analysis of the interview process, including issues of validity and reliability, legal and social constraints, and decision-making.

477 Staffing, Recruitment and Selection (4)

Prerequisite: MGMT 473. Principles, methods and procedures for analyzing the staffing process, including human resources planning, job analysis, internal and external recruiting, selection methods, and final selection decisions.

478 Financial Management of Health Care Institutions (4)

Financial management decision-making in health care institutions with emphasis on techniques of budget development.

479 Seminar: Business in Its Social Setting (4)

Prerequisite: MGMT 308 or graduate standing. Analytical interdisciplinary investigation of evolution and contemporary status of business relative to changing dynamic forces: social, political, legal, and economic.

480 Managerial Issues of Automation (4)

Prerequisite: MGMT 306 or instructor's consent. Managerial issues dealing with automated systems in both manufacturing and service organizations. Productivity, effectiveness, and feasibility of automated processes with emphasis on how management, unions, and labor should handle them.

482 Management and Business Environment in the Asian Pacific Rim (4)

Prerequisite: Management 307 or consent of instructor. Study of 'environment' of Asia Pacific Rim countries including business philosophies and management practices with a view to function effectively therein and learn to compete with them.

485 Project Management (4)

Project management theories for planning and controlling resources to accomplish complex projects; case analyses from business and nonprofit organizations; exercises with selected project management software.

488 Managing Service Delivery in a Multicultural Marketplace (4)

Prerequisites: MGMT 306 and 307, and senior standing. Cultural values, status and gender influences on the design and delivery of services. Management concepts for design and delivery of services in a multicultural marketplace.

489 High Performance Management (4)

Prerequisites: MGMT 307. Focus on managerial skills, performance context conceptual understanding and self-assessment. In depth skill-learning, analysis, practice, and application including: creative and critical thinking, managing conflict, and building effective teams.

490 Service Management (4)

Prerequisites: MGMT 306 and 307. Survey of design and management issues in high-contact services: process design, capacity and quality management, and human relations. Lectures and readings cover theoretical material and case studies provide applications.

496 Operations Research (4)

Prerequisite: MGMT 306. Evaluation and application of operations research methods as a tool for management decision-making.

497 Integrated Decision Making in Business (4)

Prerequisite: Business core requirements. Integrates business knowledge developed in core courses; provides interdisciplinary exposure to complex executive decisions in business, including conditions of uncertainty.

Graduate Level Courses (MGMT)

Classified graduate standing and approval by the School of Business and Economics Graduate Programs Office are required for admission to all 500-level courses.

500 Management (4)

Planning, organizing, leading and coordinating human and other resources for achieving organizational goals; managing operations and organizational behavior; techniques for improving business decisions, communications and quality; business responsibilities and ethics.

501 Administrative Behavior and Systems Management (4)

Analysis of concepts and cases of managerial action in organizations, including decision making processes; organizations as open systems; methods for strategically aligning an organization's capabilities, structure, and environment.

560 Seminar: Strategic Planning (3)

Corequisite: MGMT 598. Development of comprehensive business strategy and long-range plans with consideration for the social, economic, political, and technological environments; current strategic principles and practices; analysis of planning processes and systems.

561 Seminar: Organizing (3)

Corequisite: MGMT 598. Continued development of a management philosophy, with emphasis upon process of organization, allocation of responsibility and authority, and formation and behavior of industrial work groups; critical analysis through case materials.

562 Seminar: Control (3)

Corequisite: MGMT 598. Continued development of a management philosophy with emphasis on procedure analysis automation, operations research, control of operations, and morale; case materials, searching analysis of company operations.

564 Labor Relations Aspects of Health Care Delivery (2)

Prerequisite: NURS 562. Formal and informal relationships between health care facilities management and labor organizations; development of unions in health care industry; changing role of management; professional organizations; collective bargaining.

571 Seminar: Cases in Managing Health Care Policy (3)

Prerequisite: MGMT 501. Corequisite: MGMT 598. Cases involving payment systems, regulation, competition, organizational integration, legal precedents, legislation, health insurance, prevention, managing for ethical response.

572 Seminar: Power and Politics in Organizations (3)

Corequisite: MGMT 598. Analysis of power and politics in organizations; sources determinants, strategies, impact on organizational decision making and effectiveness; implications for management. Case material and selected readings.

573 Seminar: Personnel Management (3)

Prerequisite: MGMT 473. Corequisite: MGMT 598. Selected problem areas focusing on policies, techniques, and legal and social restrictions in areas of recruitment, selection, training, compensation, and occupational health and safety.

574 Seminar: Managing Employee Motivation and Work Behavior (3)

Corequisite: MGMT 598. Manager's function in leading, directing, motivating work behavior; research of cases of management processes relating to organizational behavior, growth, effectiveness.

575 Seminar: Managing the Management Career (3)

Corequisite: MGMT 598. Cases, principles, and practices for developing individual career models, directing organizational management resources and utilization activities, and serving as mentor/coach for maximum management utilization with organizations.

576 Seminar: Managing Health Care Organizations (3)

Corequisite: MGMT 598. Analysis of management processes and concepts as applied in health care organizations; practical issues in organizing, controlling, and changing health care programs and services.

577 Seminar: International Business Management (3)

Corequisite: MGMT 598. Nature, environment, resources, strategies, and models of international business organization; analysis of managerial functions performed by international business managers; case studies pertaining to management in an international context.

578 Seminar: Operations Research Topics (3)

Corequisite: MGMT 598. Modern management techniques utilizing management science methods, including traditional manufacturing applications and contemporary extensions such as transportation and logistics, communication systems, service systems, health services, education, energy, urban affairs; review of recent literature.

580 Seminar: Operations Management (3)

Corequisite: MGMT 598. Continuous measurable improvement techniques in manufacturing and service organizations. Contemporary topics and case studies.

588 Seminar: New Venture Management (3)

Corequisite: MGMT 598. Assessment of business opportunities and competitive environments. Issues in designing and building management systems to produce and deliver a product or service. Dimensions of launching a business and managing long-term growth.

590 Seminar: Productivity Management (3)

Prerequisite: MGMT 501. Corequisite: MGMT 598. Productivity perspectives, productivity measurement and evaluation methods, productivity improvement approaches, designing and executing successful productivity management program; cases in manufacturing and services sectors.

594 Policy Integration and Strategy (3)

Prerequisite: Business core requirements. Corequisite: MGMT 598. Applying knowledge, theories, and techniques derived from previous courses, using integrative cases to formulate policies under conditions of uncertainty. *Course must be taken in final quarter of student's program.*

595 Advanced Field Study (1-6)

Independent, supervised field experience in an applied area of business or health care management. Weekly tutorial sessions required for student-teacher synthesis of learning from course work and field experience. Graded CR/NC.

598 Graduate Directed Study (1)

Investigation of an approved project leading to a written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Department of**Marketing**

School of Business and Economics

DEPARTMENT OFFICE

Simpson Tower F917

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E-Mail: sstretc@calstatela.edu

Website: www.calstatela.edu/academic/business/mktg/mktgdpt.htm

The Department of Marketing prepares people for professional careers in the business of promotion and selling. The department offers both general and specialized degree and certificate programs.

The Faculty

Professors: Linda Beamer, Jens D. Biermeier, James D. Boulgarides, Bernard Codner, William A. Cohen, Richard H. Kao, Moonsong David Oh, Marshall E. Reddick, Shirley M. Stretch-Stephenson (Chair).

Assistant Professor: H. Rika Houston.

Emeriti: Henry S. Ang, William A. Knoke, Paul T. McElhiney, H. Jean Waldrop.

Undergraduate Programs**Bachelor of Science Degree in Business Administration with Options in:**

- **Marketing Management (100 units)**
- **Retailing (100 units)**

Advisement: Department of Marketing

The BSBA degree with either of these options requires completion of the BSBA Core (72 units) and one set of Option Requirements (28 units).

Core Requirements for the Bachelor of Science in Administration (72 units)**Lower Division Required Courses (28 units)**

ACCT 200AB	Principles of Accounting (4, 4)
CIS 100	Business Computer Systems (4)
ECON 201, 202	Principles of Economics I, II (4, 4)
ECON 209	Applied Business and Economic Statistics I (4)
FIN 205	Legal and Regulatory Environment of Business I (4)

Upper Division Required Courses (44 units)

ACCT 300	Managerial Accounting (4)
CIS 301	Management Information Systems (4)
ECON 309	Applied Business and Economic Statistics II (4)
FIN 303	Business Finance (4)
MGMT 301	Business Communications (4)
MGMT 306	Production and Operations Management (4)
MGMT 307	Management and Organizational Behavior (4)
MGMT 308	Business Responsibilities in Society (4)
MGMT 497	Integrated Decision Making in Business (4)
MKT 304	Principles of Marketing (4)

Select one from the following:

ECON 303	Money, Banking, and the Economy (4)
ECON 310	Managerial Economics (4)

Option Requirements for Marketing Management (28 units)

The option develops an understanding of marketing techniques and strategies used to formulate plans and policies to deal with marketing environmental problems and to integrate marketing with other business functional areas.

Required Courses (16 units)

MKT 325	High Performance Professional Skills (4)
MKT 342	Consumer Behavior (4)
MKT 442	Marketing Management (4)
MKT 446	Marketing Research (4)

Electives (12 units)

Select 12 units with adviser approval

Option Requirements for Retailing (28 units)

This option prepares students for positions in the retail industry, or to become successful entrepreneurs in their own retail business.

Required Courses (16 units)

MKT 325	High Performance Professional Skills (4)
MKT 342	Consumer Behavior (4)
MKT 344	Principles of Retailing (4)
MKT 349	Retail Merchandising and Sales Promotion (4)

Electives (12 units)

Select 12 units from the following with adviser approval
ART 430
MKT 340, 345, 346, 442, 443, 448, 452

Certificate Program in Commercial Transportation

The Department of Marketing, in cooperation with the Office of Continuing Education, offers a credit certificate program in Commercial Transportation, designed for individuals intending to pursue a career or enhance their advancement potential in

the field of industrial traffic and transportation or carrier operation.

A total of 28 units is required. Refer to *the Undergraduate Study: General Information* chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (28 units)

Students select seven courses, with approval of a transportation adviser. Five courses must be about transportation (the adviser may allow substitution of one or two GEOG or TECH courses when appropriate); the other two must be upper division courses in marketing or elsewhere within the School of Business and Economics.

Certificate Program in Marketing

The Department of Marketing offers a credit certificate in Marketing designed to prepare students for professional careers in marketing in both profit and nonprofit organizations. A total of 24 units is required. Refer to *the Undergraduate Study: General Information* chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required courses (12 units)

MKT 304	Principles of Marketing (4)
MKT 341	Salesmanship (4)
MKT 342	Consumer Behavior (4) or
MKT 446	Marketing of Services (4)

Electives (12 units)

Select Marketing Department electives with adviser approval.

Certificate Program in Retail Professional Development

The Department of Marketing offers a credit certificate in Retail Professional Development designed to provide the skills required for executive positions in the retail industry and to prepare individuals to become successful entrepreneurs in their own retail business. A total of 24 units is required. Refer to the *Undergraduate Study: General Information* chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required courses (16 units)

MKT 304	Principles of Marketing (4)
MKT 342	Consumer Behavior (4)
MKT 344	Principles of Retailing (4)
MKT 349	Retail Merchandising and Sales Promotion (4)

Electives

Select 8 units from the following:

ART 430
MKT 340, 345, 346, 442, 443, 448, 452

Graduate and Postbaccalaureate Programs

Master of Science Degree in Business Administration with Option in Marketing (45 units)

This is a specialized degree program permitting concentration and research in one of several options.

Admission to the Program

The application must include three letters of recommendation from either employers or academicians.

Students are required to complete 36 units of preparatory business and related courses for admission to classified graduate standing for the M. S. degree in Business Administration.

The 36-unit requirement can be met either by taking the courses listed below or by submitting transcripts demonstrating that the equivalent subject material has been successfully completed either at the undergraduate or graduate level. In addition, competency must be demonstrated in calculus, statistics, and the use of computers. The competency requirement can be met by successfully passing competency exams in each area of by submitting transcripts showing that the subject matter has been successfully completed at either the undergraduate or graduate level.

ACCT 260R, 360R
ECON 311R
FIN 261R, 363R
MGMT 361R, 366R, 367R or 368R
MKT 364R

In addition to completing the 36 quarter units of acceptable basic business courses listed above, applicants must have an approved graduate degree program on file in the School Advisement Center.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 41 units in 500-level courses.

Required Core (24-27 units)

ACCT 503	Quantitative Approach to Managerial Decisions (4)
CIS 504	Management Information Systems (4)
ECON 502	Economic Analysis and Business Operations (4)
MGMT 501	Administrative Behavior and Systems Management (4)
MGMT 594	Policy Integration and Strategy (3)
MGMT 598	Graduate Directed Study (1)

Additional 598 courses are to be taken for 4-7 units selected with advisor approval.

Thesis (5 units)

BUS 599AB	Thesis (2, 3)
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Required Courses for the Option (9 units)

MKT 542	Seminar: Marketing Management (3)
MKT 543	Seminar: International Marketing (3)
MKT 544	Seminar: Consumer Behavior (3)

Electives (4-7 units)

List of Courses (MKT) - Undergraduate Level

Upper division standing is prerequisite to enrollment in 300- and 400-level MKT courses

Upper Division Courses

304 Principles of Marketing (4)

Product planning, pricing, distribution, and promotion of goods and services; market research, consumer behavior, international business, and the industrial market.

325 High Performance Professional Skills (4)

Prerequisites: MGMT 301 and MKT 304. Focuses on skills, performance context, conceptual understanding, self assessment, analysis, and application in negotiation, creativity, critical thinking, diversity management, and team-building in marketing, international business, retailing and entrepreneurship.

340 Principles of Advertising (4)

Prerequisite: MKT 304. Marketing and economic functions of advertising; survey of roles played by clients, agencies, advertising departments, media, and auxiliary organizations in field.

341 Salesmanship (4)

Prerequisite: MKT 304. Fundamentals of selling and sales management; concentration on sales techniques with student presentations of critiques and analyses; procedures for selection, training, compensation, and supervision of sales personnel.

342 Consumer Behavior (4)

Prerequisite: MKT 304. Reactions of consumer to promotional activities of retailers; concepts of consumer strategy and tactics; importance of product image, brand, package influence, and store image in influencing consumer purchases.

344 Principles of Retailing (4)

Structure of retailing industry; retailing trends; retail store organization; understanding retail consumers; store location, design, and layout; basic fundamentals of operating a retail business; retail controls and evaluation.

345 Marketing Channels (4)

Prerequisite: MKT 304. Marketing channels, their development, structure, and operation; transactional and physical distribution by manufacturers, wholesalers, and retailers as parts of total marketing system.

346 Marketing of Services (4)

Prerequisite: MKT 304. Marketing of services including promotion and pricing practices and strategies; practices of franchising and specific services sectors.

349 Retail Merchandising and Sales Promotion (4)

Prerequisite: MKT 304. Analysis of merchandising and sales promotion functions performed by retailers; covers market segmentation, merchandising policies, budgeting, buying, inventory management, and pricing; emphasis on retail promotional planning, implementation, and evaluation.

350 Introduction to Transportation (4)

Importance of water, railway, highway, air, and pipeline transport modes in modern economy; carrier management, government participation, and use of energy in transportation systems.

352 World Air Transportation (4)

Prerequisite: MKT 304. Role of domestic, international, and foreign airlines in moving people and goods; history, operations, and marketing; students analyze airline case studies and related materials concerned with identifying and satisfying air travel market.

358 International Business (4)

Business conducted within a world environment; transactions comprising international business; institutional setting abroad; scope of managerial decision-making in international business operations.

440 Advanced Advertising and Promotion (4)

Prerequisite: MKT 340. In-depth review of advertising and promotion management; emphasis on strategic decision-making through case study analyses; supplemental topic areas include sales promotion, agency/client relations, and measurement/evaluation techniques.

441 Industrial Marketing (4)

Prerequisite: MKT 304. Analysis of various types of industrial goods and markets for them, including government agencies; product planning; marketing research; determination of marketing channels; pricing policies; sales promotion; and cost distribution.

442 Marketing Management (4)

Prerequisite: MKT 304. Intensive study of marketing management, with emphasis on marketing environment; development of marketing strategies and formulation of policies; integration of marketing with other functional areas of business through case studies.

443 Marketing in a New Business (4)

Prerequisite: MKT 304. Introduction of a new business or product concept into marketplace; emphasis on small business marketing entrepreneurship.

445 Public Relations Methods for Business (4)

Prerequisite: MKT 304. Public relations policies and techniques for business enterprises; development of good relationships with customer, employee, stockholder, government, and general public. Role of research, publicity, and mass media in public relations.

446 Marketing Research (4)

Prerequisites: MKT 304, ECON 209. Marketing research functions and procedures utilized in measuring and analyzing environmental factors in consumer demand, sales efficiency, effectiveness of promotional programs, and effects of competitor's strategies; methods of product distribution and pricing research. Projects emphasize current marketing research techniques.

447 Business Consulting (4)

Prerequisite: Majority of upper division core courses. Analytic, administrative, and communicative aspects of consulting and counseling processes; application of functional knowledge and skills to consultation.

448 Mail Order/Direct Response Marketing (4)

Prerequisite: MKT 304. The growing direct marketing industry: catalogs, direct mail, broadcast and print media, and telemarketing; strategic applications in marketing/promotions plans of existing and entrepreneurship business situations.

452 Physical Distribution Management (4)

Prerequisite: MKT 304. Cases and problems in logistics to show how distribution manager uses systems concept and cost tradeoffs in procuring transportation, storage, and optimum inventory for business firm.

453 Marketing for Nonprofit Organizations (4)

Prerequisite: MKT 304. Relationship of marketing principles and marketing analyses to performance of nonprofit institutions in U.S. economy by use of case studies.

454 Special Topics in Marketing (1–4)

Prerequisite: Varies with topics; see Schedule of Classes for specific requirement. In-depth presentation and analysis of topics significant to contemporary business world; lectures, discussions, speakers, and research projects.

455 Proseminar: International Transportation (4)

Prerequisite: MKT 304. Use of ocean vessels, air transport, intermodal carriers, and foreign freight forwarders to move goods in our import/export trade; discussions of multimodal concept, documentation, and marine insurance.

456 International Marketing Management (4)

Prerequisite: MKT 304. International marketing operations: product policies, pricing, advertising, distributional channels, marketing research; factors governing the decision to engage in foreign transactions. In-depth market studies.

457 Import-Export (4)

Prerequisite: MKT 358. Import-export operations: organization, regulation, terms of access, documentation, shipment and financing involved with international movement of merchandise; trade patterns by countries and commodities.

**459 Intercultural Business Communication (4)
(Also listed as SPCH 459)**

Prerequisite: MGMT 301 or SPCH 300. Analytical approach to understanding cultures in order to do business effectively. Steps in achieving intercultural communication competence, framework for understanding cultures, nonverbal communication, document organization from cultural priorities, and negotiation.

Graduate Level Courses (MKT)

Classified graduate standing and approval by the School of Business and Economics Advisement Center are required for admission to all 500-level courses.

500 Marketing Principles and Concepts (4)

Understanding the influence the environment plus consumer and organizational behavior has on the researching, planning, developing, implementing, and controlling of marketing management plans and strategies.

540 Seminar: Marketing Communication (3)

Corequisite: MKT 598. Strategic promotional variables considered individually and in combination to communicate want-satisfying attributes of products and services in the most effective and efficient manner.

542 Seminar: Marketing Management (3)

Corequisite: MKT 598. Analysis of management of the enterprise, operating under conditions of uncertainty and designed to distribute want-satisfying goods and services.

543 Seminar: International Marketing (3)

Corequisite: MKT 598. Planning and implementing international marketing programs including those of multinational corporations; micro and macro marketing implications of economic development; consumer behavior, market research and strategy in other cultures.

544 Seminar: Consumer Behavior (3)

Corequisite: MKT 598. An interdisciplinary study that concentrates on how consumers behave in the marketplace; the objective is to understand, explain, and predict consumers' actions under a variety of market conditions.

545 Seminar: New Venture Marketing (3)

Corequisite: MKT 598. Strategies for introducing new ventures, products, services, and businesses from conception of the idea through market testing to introducing the product/service successfully into the marketplace.

546 Seminar: Marketing Research (3)

Prerequisites: ECON 309; MKT 304; MGMT 361R. Role of marketing research in making marketing decisions and planning and implementing marketing research projects; state-of-the-art marketing research tools and techniques and their applications.

547 Seminar: Retail Management (3)

Corequisite: MKT 598. Policies, problems, and opportunities in today's complex and dynamic retail environment; procedures for interrelating, planning, and implementing retail strategy involving marketing, management, and financial tools and theory.

550 Seminar: Transportation and Physical Distribution (3)

Corequisite: MKT 598. Role of transportation and distribution manager in reducing inventory control risks by planning, selecting, and supervising forms of transportation; current developments in handling and storage facilities and other distribution services.

598 Graduate Directed Study (1)

Investigation of an approved project leading to a written report; project selected in conference with seminar professor, and arrangements made for regular meetings during quarter. May be repeated for credit.

Department of

Mathematics and Computer Science

School of Natural and Social Sciences

DEPARTMENT OFFICE

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The Department of Mathematics and Computer Science offers undergraduate programs leading to the Bachelor of Arts and Bachelor of Science in Mathematics, both with several options, and a Bachelor of Science degree in Computer Science. Programs in the department allow preparation for graduate study and professional careers in a variety of directions.

The Department also offers a Master of Science degree program in Mathematics.

The Faculty

Professors: Russell J. Abbott, Butrus G. Basmaji, Gerald Beer, Wayne W. Bishop, Marshall L. Cates, Paul L. Chabot, Derek K. Chang, Grant A. Fraser, Michael J. Hoffman (*Chair*), Richard Katz, Grigori Kolesnik, Rina Ling, Hrushikesh N. Mhaskar, Gordon L. Nipp, Jagdish Prasad, Pudukkottai Subramanian, Rodolfo G. Tamez, Nguyen Uy, Stewart M. Venit, Andrei Verona.

Associate Professors: Vladimir N. Akis, Nandlal Jhunjunwala, Illias G. Kastanas, Daphne Liu, Robert L. Meyer, Raj S. Pamula, Behzad Parviz, Robert K. Tamaki

Assistant Professors: Shirley B. Gray, Silvia P. Heubach.

Emeriti: Charles L. Clark, John H. De Hardt, Robert J. Diamond, Evelyn B. Granville, Harry S. Hayashi, Donald I. Kiel

Undergraduate Programs

Bachelor's Degrees

Two baccalaureates in mathematics and one in computer science are offered. A major in computer science prepares students for employment in computer-related positions in industry and government. A major in mathematics prepares students to teach in secondary schools, work as research assistants in industry and government, or enter graduate school to prepare for positions in higher education, industry, and government.

The Bachelor of Arts or Bachelor of Science degree may be obtained in four years if adequate preparation has been secured in high school, e.g., algebra (2 years), geometry, trigonometry. Students who have not had this preparation or whose command of these subjects is weak may be advised to strengthen their knowledge before attempting college mathematics.

For each degree, a minimum C (2.0) grade point average is required in all upper division courses included in the major.

Bachelor of Science Degree in Computer Science

The objective of the Bachelor of Science degree in Computer Science is to prepare qualified students for careers involving the design of computer systems and their applications to science and industry. The program provides an excellent foundation in all core areas of computer science with the opportunity to choose electives in a variety of specialized fields. A total of 198 units is required for the degree, including 120 units in the major. (See the *Undergraduate Studies: General Information* chapter, especially the **General**

Education section for information on requirements beyond those in the major.)

Requirements for the Major (120 units)

Lower Division Required Courses (56 units)

CS	201	Introduction to Programming (4)
CS	202	Introduction to Object Oriented Programming (4)
CS	212	Programming with Data Structures (4)
CS	240	Computer Organization and Assembly Language (4)
CS	270	Probability with Applications (4)
MATH	206–208	Calculus I–III (4,4,4)
MATH	248	Discrete Mathematics (4)
PHIL	250	Introduction to Symbolic Logic (4)
PHYS	201–203	General Physics (4,4,4)

Upper Division Required Courses (24 units)

CS	312	Data Structures and Algorithms (4)
CS	386	Introduction to Automata Theory (4)
CS	432	Programming Languages (4)
CS	437	Software Engineering (4)
CS	440	Introduction to Operating Systems (4)
CS	444	Computer Architecture (4)

Electives (40 units)

Select ten additional upper division computer science courses. Courses outside Computer Science may be substituted only with prior approval of the Computer Science undergraduate adviser.

Bachelor of Arts Degree in Mathematics

The Bachelor of Arts in Mathematics degree curriculum of 186 units prepares students for positions in education, business, industry, or government, as well as for graduate work in mathematics. (See the *Undergraduate Studies: General Information* chapter, especially the **General Education** section for information on requirements beyond those in the major.)

Requirements for the Major (80–82 units)

Lower Division Required Courses (30–32 units)

CS 201	Introduction to Programming (4) <i>or</i>
CS 290	Introduction to FORTRAN Programming (2)
MATH 206–209	Calculus I–IV (4,4,4,4)
MATH 255	Introduction to Matrix Theory (4)
PHYS 201–202	General Physics (4, 4)

Electives in Related Areas (8 units)

Select from among the following or other appropriate courses with approval of adviser and attention to prerequisites.

BIOL 300, 408
 CE 202
 CHEM 102, 103, 301, 403,
 CIS 294
 ECON 309, 310, 391, 403, 414
 EE 332
 ENGR 201, 204, 208, 490
 GEOL 472
 ME 306, 326A, 403, 408
 MGMT 306, 496
 PHIL 250, 404, 405
 PHYS 203–205, 410AB, 427, 428, 432A

Upper Division Required Courses (14 units)

MATH 325	Mathematical Notation and Proof (4)
MATH 390	Technical Writing in Mathematics (2)
MATH 455	Modern Algebra I (4)
MATH 465	Advanced Calculus I (4)

Electives (28 units)

Students may select one of the following 28-unit options. If no option is selected, choose 8 units from MATH 403, 420, 430, 435, 446, 456 *or* 457, 463, 466 *or* 467, 470, and 474, and 20 units from upper division CS and MATH courses, including at least 8 units of MATH.

Each option consists of 28 units of related courses selected from upper division electives; however, an option is **not required**.

Option in Pure Mathematics (28 units)

This option prepares students for graduate work in mathematics.

Required Courses (16 units)

MATH 456	Modern Algebra II (4)
MATH 463	Introduction to Complex Analysis (4)
MATH 466	Advanced Calculus II (4)
MATH 467	Advanced Calculus III (4)

Select courses in mathematics with adviser approval. The following are strongly recommended:

MATH 435	Topology (4)
MATH 457	Linear Algebra (4)

Single Subject Teaching Option (28 units)

This option is intended for students who are interested in teaching mathematics. Students should consult the Charter School of Education for credential requirements. Refer to the **Charter School of Education** section of the *Academic Programs: School-based and University-wide* chapter of this catalog for regulations governing all teaching credential programs.

Required Courses (24 units)

MATH 248	Discrete Mathematics (4)
MATH 320	Selected Topics in History of Mathematics (4)
MATH 430	Modern Geometry (4)
MATH 446	Theory of Numbers (4)
MATH 474	Theory of Probability (4)
MATH 490	Senior Seminar in Mathematics (4)

Electives (4 units)

Select computer science and mathematics courses with adviser approval. Students with a strong interest in computer science should consider completing the minor in Computer Science.

Bachelor of Science Degree in Mathematics

The Bachelor of Science degree curriculum of 198 units is designed to prepare students for positions in business, industry, or government, as well as for graduate work in mathematics. (See the *Undergraduate Studies: General Information* chapter, especially the **General Education** section for information on requirements beyond those in the major.)

Requirements for the Major (100–102 units)

Lower Division Required Courses (46–48 units)

CS 201	Introduction to Programming (4) <i>or</i>
CS 290	Introduction to FORTRAN Programming (2)
MATH 206–209	Calculus I–IV (4,4,4,4)
MATH 215	Differential Equations (4)
MATH 255	Introduction to Matrix Theory (4)
PHYS 201–205	General Physics (4,4,4,4,4)

Electives (8 units)

Select from lower division natural science or engineering courses.

Upper Division Required Courses (14 units)

MATH 325	Mathematical Notation and Proof (4)
MATH 390	Technical Writing in Mathematics (2)
MATH 455	Modern Algebra I (4)
MATH 465	Advanced Calculus I (4)

Electives/Options (32 units)

Electives (32 units)

Select upper division computer science and mathematics courses. With departmental approval, a maximum of 8 units may be replaced by upper division courses in other fields. Students may also select one of the options below. If no option is selected, at least 16 units in mathematics must be included. At least 8 units from MATH 403, 420, 430, 435, 446, 456 *or* 457, 463, 466 *or* 467, 470, and 474 must be included.

Options

Students may select one or more of the following 32-unit options. Each option consists of several related courses selected from upper division electives; however, an option is **not required**.

Option in Applied Mathematics (32 units)

This option prepares students for graduate work in applied mathematics.

Required Courses (20 units)

MATH 403	Partial Differential Equations (4)
MATH 410	Vector Analysis (4)
MATH 467	Advanced Calculus III (4)
MATH 463	Introduction to Complex Analysis (4)
MATH 470	Numerical Analysis I (4) or
MATH 472	Linear Programming (4)

Electives (12 units)

Select mathematics or computer science courses with approval of adviser. The following are strongly recommended:

MATH 411	Tensor Analysis (4)
MATH 457	Linear Algebra (4)

Single Subject Teaching Option (32 units)

This option is intended for students who are interested in teaching mathematics. Students should consult the Charter School of Education for credential requirements. Refer to the undergraduate **Charter School of Education** of the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Required Courses (24 units)

MATH 248	Discrete Mathematics (4)
MATH 320	Selected Topics in History of Mathematics (4)
MATH 430	Modern Geometry (4)
MATH 446	Theory of Numbers (4)
MATH 474	Theory of Probability (4)
MATH 490	Senior Seminar in Mathematics (4)

Electives (8 units)

Select computer science and mathematics courses with approval of adviser. Students with a strong interest in computer science should consider completing the minor in Computer Science.

Minor in Computer Science

A Computer Science minor, available for students majoring in other fields, consists of 36 units; 12 are upper division. Students majoring in fields that require the same courses as those required for the minor in Computer Science must take only those courses in the minor program that are not incorporated into their major.

Requirements for the Minor (36 units)**Required Courses (28 units)**

CS 201	Introduction to Programming (4)
CS 202	Introduction to Object Oriented Programming (4)
CS 212	Programming Data Structures (4)
CS 240	Computer Organization and Assembly Language (4)
CS 312	Data Structures and Algorithms (4)
MATH 206-207	Calculus I-II (4,4)

Electives (8 units)

Select 8 units of upper division computer science courses.

Minor in Mathematics

The Mathematics minor, available for students majoring in other fields, consists of 32 units, of which 12 are upper division. Students majoring in fields that require the same courses as those required for the minor in Mathematics need take only those courses in the minor program that are not incorporated into their major.

Requirements for the Minor (32 units)**Lower Division Required Courses (20 units)**

MATH 206–209	Calculus I–IV (4 each)
MATH 255	Introduction to Matrix Theory (4)

Upper Division Electives (12 units)

Select three upper division mathematics courses, with adviser approval.

The Credential Program

The Single Subject Matter credential program has been approved by the California Commission on Teacher Credentialing for the Single Subject credential in Mathematics. Students should consult advisers in the department and the **Charter School of Education**. Students who are seeking a Single Subject credential in Mathematics must pass the appropriate subject examination (PRAXIS/SSAT Series) or complete an approved program of course work that is listed below. Those who are majoring in mathematics follow the Single Subject Teaching Option, which incorporates the courses listed below. Others who have earned or are pursuing a baccalaureate in another discipline may qualify for the Single Subject credential in Mathematics by completing the program described below. Refer to the **Charter School of Education** section of the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Subject Matter Program for Single Subject Credential in Mathematics

It is assumed that students entering this program have completed one course in college algebra and one in trigonometry.

Required Courses (69-71 units)

MATH 206–209	Calculus I–IV (4,4,4,4)
MATH 248	Discrete Mathematics (4)
MATH 255	Introduction to Matrix Theory (4)
MATH 320	Selected Topics in History of Mathematics (4)
MATH 325	Mathematical Notation and Proof (4)
MATH 398	Observation and Tutoring (1-1-1)
MATH 430	Modern Geometry (4)
MATH 446	Theory of Numbers (4)
MATH 455	Modern Algebra I (4)
MATH 465	Advanced Calculus I (4)
MATH 474	Theory of Probability (4)
MATH 490	Senior Seminar in Mathematics (4)
CS 201	Introduction to Programming (4) or
CS 290	Introduction to FORTRAN Programming (2)
PHYS 201-202	General Physics (4, 4)

Electives (minimum 12 units)

Select from among the following or other appropriate courses with approval of adviser and attention to prerequisites.

BIOL 300, 340, 408
 CE 202
 CHEM 101, 102, 103, 401, 402, 403
 CIS 228, 283, 294
 CS 202, 240, 340, either 201 or 290 if not selected above
 ECON 209, 309, 310, 391, 401, 403, 410, 414, 416
 EE 244, 345
 ENGR 201, 204
 MATH 215, 420, 456, 457, 466, 470, 472, 475
 ME 306, 326A
 PHIL 250, 404, 405, 406
 PHYS 203-205, 410AB, 427, 428, 432AB, 488

Mathematics 466 is strongly recommended for those who may be teaching Advanced Placement calculus classes.

Supplementary Authorization for Single or Multiple Subject Teaching Credential (30–32 units)

Holders of a Single Subject or Multiple Subject credential issued by the California Commission on Teacher Credentialing may secure a supplementary authorization in Introductory Mathematics (on single subject credentials) or Mathematics (on multiple subject credentials) for teaching mathematics at any grade level through grade 9 by completing following

courses with a grade C or higher in each course. For other requirements governing issuance of this authorization, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (30–32 units):

Required Courses (16 units)

MATH 102 College Algebra (4)
 MATH 103 Algebra and Trigonometry (4)
 MATH 206 Calculus I (4)
 MATH 207 Calculus II (4)

Select three courses from the following (12 units)

MATH 208 Calculus III (4)
 MATH 248 Discrete Mathematics (4)
 MATH 255 Introduction to Matrix Theory (4)
 MATH 274 Introduction to Statistics (4)
 MATH 320 Selected Topics in History of Mathematics (4)
 MATH 325 Mathematical Notation and Proof (4)
 MATH 430* Modern Geometry (4)
 MATH 474** Theory of Probability (4)

Select one course from following (2 or 4 units)

CS 190 BASIC Programming (2)
 CS 201 Introduction to Programming (4)
 CS 290 Introduction to FORTRAN Programming (2)
 *prerequisite: MATH 325
 **prerequisite: MATH 209

Graduate and Postbaccalaureate Programs

Master of Science Degree in Mathematics

The Master of Science degree in Mathematics is offered in two options. Option 1 is a flexible program that can be concentrated on pure mathematics or incorporate elements of both pure and applied mathematics. Option 2 emphasizes applied mathematics. Both options prepare the student for higher mathematical work in industry, business, or government, for teaching in a community college, and for further graduate work in the respective areas.

Admission to the Program

Admission is governed by general University requirements for admission to graduate study.

Requirements for the Degree (minimum 45 units)

A minimum of 45 units is required, with at least 23 in 500-level courses. Students must successfully complete either comprehensive examinations or a thesis in addition to course requirements.

Comprehensive Examination or Thesis (0, 1–4 units)

MATH 596 Comprehensive Examination (0) or
 MATH 599 Thesis (1–4)

A. Comprehensive Examination

Students must pass Option 1 written comprehensive examinations in 3 of 4 areas: topology, abstract algebra, complex analysis, and real analysis; for Option 2, 3 areas: applied linear analysis, complex analysis, and numerical analysis. Students should expect to take the comprehensive examinations (MATH 596) the quarter they complete all course

work on their program and must comply with school and departmental requirements.

B. Thesis

Subject to approval by graduate adviser, students may be permitted to do directed research with a faculty member and write a thesis in lieu of taking comprehensive examinations. If the thesis is accepted, a maximum of 4 units of MATH 599 may be applied to the master's degree program (electives).

Option 1: General Mathematics (45 units)

The candidate's baccalaureate preparation should be substantially equivalent to that required for Cal State L.A.'s Bachelor of Arts degree in Mathematics.

Required Courses (20 units)

MATH 530 Topology (4)
 MATH 540AB Abstract Algebra I, II (4,4)
 MATH 562 Advanced Complex Analysis (4)

Select one from:

MATH 580 Real Analysis (4)
 MATH 591 Functional Analysis (4)

Electives (4 units-select a seminar)

MATH 550, 551, 552, or 553

Electives (21 units)

Select from 400 and 500-level courses with graduate adviser approval and no more than 12 units in nonmathematics courses.

Option 2: Applied Mathematics (45 units)

The candidate's undergraduate preparation should be substantially equivalent to that required for Cal State L.A.'s Bachelor of Science degree in Mathematics.

Required Courses (28 units)

MATH 502AB	Applied Linear Analysis I, II (4, 4)
MATH 520	Calculus of Variations (4)
MATH 521	Mathematical Models and Optimizations (4)
MATH 562	Advanced Complex Analysis (4)
MATH 570AB	Advanced Numerical Analysis (4, 4)

Electives (17 units)

Select 400 and 500-level MATH courses. With graduate adviser approval, 8 units may be taken in business, economics, engineering, or physics. At least 4 units must be 500 level.

List of Courses - Undergraduate Level**Courses in Computer Science (CS)****Lower Division Courses****160 Introduction to Computers (3)**

Prerequisite: GE mathematics requirement. History of computers; hardware, software including data base systems, word processors, spreadsheets, programming languages; social and ethical implications. Lecture 2 hours, laboratory 3 hours. Offered CR/NC only.

190 BASIC Programming (2)

Prerequisite: One year of high school algebra. Introduction to computer programming using BASIC language. Applications will assume a minimal mathematics background. Does not fulfill mathematics major requirement. Lecture 1 hour, laboratory 3 hours.

201 Introduction to Programming (4)

Prerequisite: MATH 103. Algorithm development for structured programming, designing, coding, debugging, and documenting programs.

202 Introduction to Object Oriented Programming (4)

Prerequisites: CS 201; MATH 206. Algorithm development for Object Oriented Programming; designing, coding, debugging, and documenting programs.

212 Programming with Data Structures (4)

Prerequisites: CS 202, MATH 207. Advanced programming techniques; elementary data structures such as dynamic arrays, linked lists, stacks, queues, and trees, sorting and searching algorithms.

240 Computer Organization and Assembly Language (4)

Prerequisite: CS 201. Representation of information; introduction to computer organization; assembly language; introduction to system software.

270 Probability with Applications (4)

Prerequisite: MATH 208, MATH 248. Basic rules of probability, conditional probability, independence, random variables, special discrete and continuous distributions, expectation, functions of random variables. Applications: Markov chains and simple cases of queuing theory.

290 Introduction to FORTRAN Programming (2)

Prerequisite: MATH 206. Elementary computer programming using FORTRAN language. Lecture 1 hour, laboratory 3 hours. *No credit toward Computer Science major.*

292 C Programming (4)

Prerequisite: MATH 103. The C programming language; UNIX operating system; scientific programming applications; systems programming.

Upper Division Courses**312 Data Structures and Algorithms (4)**

Prerequisites: CS 212, MATH 208 and 248. Abstract data types and their use in constructing algorithms for manipulating lists, trees, and graphs; analysis of algorithms for searching, sorting, and data structure manipulation.

320 JAVA Programming (4)

Prerequisite: CS 212. Java language and syntax; objects and classes, packages, Java applets, introduction to Internet programming with Java, using Java Development Kit and Java application programming interface. Lecture 4 hours.

340 Assembly Language and Systems Programming (4)

Prerequisite: CS 240. Assembly language; addressing techniques; subroutines; macros; system input/output; interrupts and traps; assemblers; linkers; loaders; macroprocessors.

344 Combinatorial Logic and Design of Sequential Circuits (4)

Prerequisite: CS 201. Boolean algebra and design of combinational circuits; sequential logic and design of finite state machines; introduction to automata theory.

350 Object Oriented Programming (4)

Prerequisite: CS 212. Data abstraction; software development of interacting objects that embody their own operations; inheritance of object types; implementation in current programming languages.

358N Science and Controversy (4)

(also listed as BIOL 358N, CHEM 358N, PHYS 358N)

Prerequisite: GE natural science requirement. Scientific background of issues that affect public welfare, such as genetic technology, chemical pesticides, energy production and utilization, and artificial intelligence. *No credit toward Biology, Chemistry, Computer Science, Mathematics, or Physics major.*

370 Parallel and Distributed Programming (4)

Prerequisites: CS 212, CS 240. Parallel programming techniques; abstract models of hardware and operating systems to support parallel programs.

386 Introduction to Automata Theory (4)

Prerequisites: CS 202, MATH 255, PHIL 250. Formal approach to automata theory; finite state machines, regular expressions, regular languages. Develops mathematical foundation for computer science.

422 Principles of Data Base Systems (4)

Prerequisites: CS 312, 386. Data base system architecture; hierarchical, network, and relational data base systems; query facilities; data base security and integrity.

432 Programming Language Semantics (4)

Prerequisites: CS 312, 386. An introduction to the operational semantics of programming languages. An examination of the important capabilities available in selected languages and the mechanisms needed to implement them.

434 User Interface Management System (4)

Prerequisites: CS 312, 350, 370, 386. Introduction to the use of user interface development and management systems in system development. Strategies for building intuitive user interfaces. Internal organization of user interface packages.

437 Software Engineering (4)

Prerequisites: CS 312, CS 386 and completion of the GVAR. Methodologies and tools for the specification, design, development, testing, evaluation, and maintenance of software systems. This course satisfies the upper division writing requirement.

440 Introduction to Operating Systems (4)

Prerequisites: CS 240, 312. Resource, memory, and process management; concurrent processing; networking; distributed systems.

442 Advanced Operating Systems (4)

Prerequisite: CS 440. Asynchronous concurrent processes; mutual exclusion and deadlocks; virtual storage organization and management; multiprocessing; auxiliary storage management; performance measurement; operating systems security.

444 Computer Architecture (4)

Prerequisites: CS 240, 312. Computing Systems. Integrated study of computer hardware and firmware. Introduction to parallel architectures.

447 Computer Networks (4)

Prerequisites: CS 270, 440. Overview of principles and concepts in computer networks and distributed systems; network structures, topology, architecture, and related software.

450 Computer Graphics (4)

Prerequisites: CS 312, MATH 208, MATH 255. Graphic input and display devices; graphics packages; two- and three-dimensional transformations; clipping and windowing; perspective; hidden-line and hidden-surface algorithms.

454 Topics in Advanced Computer Science (1–4)

Prerequisites: As needed for specific topic. Current topics of special interest to students in computer science, as announced in *Schedule of Classes*. May be repeated for credit.

460 Artificial Intelligence (4)

Prerequisite: CS 312. Knowledge representation; problem solving strategies and search algorithms; applications from such areas as theorem proving, expert systems, natural language processing, robotics, and pattern recognition.

461 Machine Learning (4)

Prerequisite: CS 312. Means that enable computers to perform tasks for which they were not explicitly programmed; learning paradigms include inductive generalization for examples, genetic algorithms, and connectionist systems such as neural nets.

486 Grammars, Languages, and Automata (4)

Prerequisites: CS 344, 386. Languages and automata, especially context-free and regular languages and their associated automata; applications to compilers; Turing machines and computability.

488 Compilers (4)

Prerequisites: CS 312, 432, 486. Compiler construction; lexical analysis, including regular languages and finite-state acceptors; syntactic analysis, including parsing techniques and grammars; code generation and optimization.

499 Undergraduate Directed Study (1–4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Courses in Mathematics (MATH)

**All prerequisites for the following MATH courses must have been completed within the past year: MATH 091, 100, 102, 103, 206, and 242. The ELM requirement must be met before enrollment in MATH 081, 090, 091, 100, 102, 103, 242. The ELM exam scores are good for one year for placement purposes.*

Subcollegiate Courses

081 Intensive Learning Experience I (4)

Covers first two-thirds of MATH 090. Properties of ordinary arithmetic, integers, rational numbers, real numbers, linear equations. Graded *CR/NC*. Open only to students with ELM score below 360. *No credit toward baccalaureate.*

082 Intensive Learning Experience II (4)

Prerequisite: MATH 081. Covers last third of MATH 090 and first third of MATH 091. Linear equations, inequalities, system of equations, basic geometry, polynomials and functions. Open only to students with ELM score below 360. Graded *A,B,C/NC*. *No credit toward baccalaureate.*

083 Intensive Learning Experience III (4)

Prerequisite: MATH 082. Covers last two-thirds of MATH 091. Fractional expressions and equations, exponents, quadratic equations, exponentials and logarithms. Graded *A,B,C/NC*. Open only to students with ELM score below 360. *No credit toward baccalaureate.*

090 Preparatory Mathematics (4)

Prerequisite: Score of 470 or less on ELM. For students who are not prepared for college level mathematics. Fundamentals of arithmetic including percentages and decimals; introductory algebra including linear equations, quadratic equations, graphing; basic geometric formulas. Graded *A,B,C/NC*. Students with credit or two *NC* grades for this course may not enroll again. *No credit toward baccalaureate.*

091 Intermediate Algebra (4)

*Prerequisite: MATH 090 or score of 480 or more on ELM. Fundamental skills necessary for mathematics beyond arithmetic; basic topics in algebra, including multiplication, division, and factorization of polynomials; solutions of equations and systems of equations, functions, exponents, and logarithms. Graded A,B,C/NC. Students with credit or two NC grades for this course may not enroll again. *No credit toward baccalaureate.*

Lower Division Courses**100 Introduction to College Mathematics (4)**

*Prerequisites: Score of 550 or more on ELM; or MATH 091 with minimum C grade. Introduction to mathematical methods and reasoning, including logic, sets and set operations, combinatorics and probability, descriptive statistics, normal distribution, and margin of error. *No credit toward mathematics or computer science majors.* **CAN MATH 2, GE A4**

102 College Algebra (4)

*Prerequisites: Score of 550 or more on ELM or MATH 091. Logarithmic and exponential functions; polynomial equations; permutations, combinations, and probability; sequences and series; matrices and determinants; mathematical induction. **CAN MATH 10, GE A4**

103 Algebra and Trigonometry (4)

*Prerequisites: Satisfactory score on (or exemption from) ELM; MATH 102 with minimum C grade or satisfactory score on placement examination. Trigonometric functions, identities, and equations; solution of triangles; inverse trigonometric functions; complex numbers, DeMoivre's Theorem; parametric equations; polar coordinates. **CAN MATH 8**

120 Mathematics for Elementary School Teachers (4)

*Prerequisite: MATH 100 with minimum C grade within past 3 years or satisfactory score on placement examination. Selected topics from elementary geometry, units of measurement, areas, volumes, approximate numbers, square roots.

206 Calculus I: Differentiation (4)

*Prerequisites: Satisfactory score on (or exemption from) ELM; MATH 102 and 103, each with a minimum C grade or satisfactory score on placement examination. Functions, graphs, conics, limits, continuity and derivatives, anti-differentiation, and applications.

MATH 206+207+208 = CAN MATH SEQ B
MATH 206+207+208+209 = CAN MATH SEQ C

207 Calculus II: Integration (4)

Prerequisite: MATH 206 with minimum C grade. The definite integral, Fundamental Theorem of the Calculus, transcendental functions, methods of integration, applications to physics and biology.

MATH 206+207+208 = CAN MATH SEQ B
MATH 206+207+208+209 = CAN MATH SEQ C

208 Calculus III: Sequences, Series, and Coordinate Systems (4)

Prerequisite: MATH 207 with minimum C grade. Limits of sequences and series, indeterminate forms, Taylor Series, plane coordinate systems, and change of coordinates.

MATH 206+207+208 = CAN MATH SEQ B
MATH 206+207+208+209 = CAN MATH SEQ C

209 Calculus IV: Several Variables (4)

Prerequisite: MATH 208 with minimum C grade. Three-dimensional analytic geometry, partial differentiation, multiple integration, spherical and cylindrical coordinate systems, improper integrals.

MATH 206+207+208+209 = CAN MATH SEQ C

215 Differential Equations (4)

Prerequisite: MATH 209. Ordinary differential equations with concentration on methods of finding solutions; applications in science and engineering. **CAN MATH 24**

230 Calculus for Biological Sciences (4)

Prerequisite: MATH 206. Integration, ordinary differential equations, difference equations, partial differentiation, applications to problems arising in biological sciences.

242 Mathematics for Business and Economics Majors (4)

*Prerequisites: Satisfactory score on (or exemption from) ELM; MATH 102 with minimum C grade or satisfactory score on placement examination. Differential calculus with applications; introduction to integral calculus. **CAN MATH 34**

248 Discrete Mathematics (4)

Fundamentals of logic and set theory, counting techniques, relations, induction and recursion; graphs and trees.

254 Selected Topics in Mathematics (1-6)

Prerequisites: As needed for specific topic. Current topics of interest to students in mathematics, as announced in *Schedule of Classes*. May be repeated for credit.

255 Introduction to Matrix Theory (4)

Prerequisite: MATH 208. Vector spaces, linear transformations, linear equations, matrices, determinants, eigenvectors and eigenvalues, canonical forms. **CAN MATH 26**

274 Introduction to Statistics (4)

Prerequisite: MATH 091. Statistical terms; interpretation of statistical data with and without use of probability, random sampling, confidence limits, and hypothesis tests. **CAN STAT 2**

Upper Division Courses**320 Selected Topics in History of Mathematics (4)**

Prerequisite or corequisite: MATH 207. Traces development of fundamental concepts and techniques in fields of algebra, geometry, trigonometry, and calculus.

325 Mathematical Notation and Proof (4)

Prerequisite: MATH 208. Elementary set theory and number theory with emphasis on notation and types of proof. Axiomatic method, equivalence relations, ϵ - δ arguments.

354 Selected Topics in Mathematics (1-6)

Prerequisites: As needed for specific topic. Current topics of interest to students in mathematics as announced in the *Schedule of Classes*. May be repeated for credit.

390 Technical Writing in Mathematics (2)

Prerequisites: MATH 325, satisfactory completion of the Graduation Writing Assessment Requirement (GWAR), concurrent enrollment in a 400-level MATH course (other than 402AB). Expository writing on mathematical topics selected by the instructor, including a technical report related to the 400-level course being taken concurrently.

401 Differential Equations (4)

Prerequisites: MATH 209, 255, 325. Ordinary differential equations with concentration on properties of solutions, including existence and uniqueness. Emphasis on theory as opposed to applications.

402A Advanced Mathematics I for Engineers and Physicists (4)

Prerequisite: MATH 215 or 401. Vector analysis to include line and surface integrals, orthogonal curvilinear coordinates, complex variables to include contour integration and conformal mapping. Laplace transformation.

402B Advanced Mathematics II for Engineers and Physicists (4)

Prerequisite: MATH 402A. Implicit functions and Jacobians, infinite series and integrals, differentiation of integrals; Taylor series for several variables; Fourier series and boundary value problems, special functions (Bessel, Legendre, error, elliptic), calculus of variations.

403 Partial Differential Equations (4)

Prerequisite: MATH 215 or 401. Orthogonal sets of functions. Fourier series and integrals, with applications to the equations of mathematical physics; first order equations, Cauchy's method of characteristics.

410 Vector Analysis (4)

Prerequisites: MATH 209, 255. Vector algebra and calculus, vector fields, gradient, divergence, curl, divergence theorem, Stokes' theorem, applications to geometry and mathematical physics.

411 Tensor Analysis (4)

Prerequisite: MATH 410. Contravariant and covariant vectors and tensors, tensor algebra, Riemannian geometry, the metric tensor, geodesics, Christoffel symbols, derivatives of tensors, physical components of tensors. Applications to mechanics and differential geometry.

420 Mathematical Logic (4)

Prerequisite: MATH 325. The statement calculus, the predicate calculus, mathematical structures, and the deduction of valid consequences; the completeness theorem.

430 Modern Geometry (4)

Prerequisite: MATH 325. Topics selected from advanced Euclidean geometry, non-Euclidean geometry, projective geometry. May be repeated once for credit with approval of instructor as subject matter changes.

435 Topology (4)

Prerequisite: MATH 465. Introduction to point set topology, including continuity, product spaces, compactness, Tyconoff theorem, connectedness, metric spaces, and Urysohn lemma.

446 Theory of Numbers (4)

Prerequisites: MATH 325, upper division standing. Divisibility, Euclidean algorithm, prime numbers, fundamental theorem of arithmetic, distribution of primes, congruences, Fermat-Euler and Wilson theorems, residues and quadratic reciprocity law. Bernoulli numbers, quadratic forms, Diophantine equations.

454 Selected Topics in Advanced Mathematics (1–6)

Prerequisites: As needed for specific topic. Current topics of interest to students in mathematics, as announced in *Schedule of Classes*. May be repeated for credit.

455 Modern Algebra I (4)

Prerequisites: MATH 255, 325. Groups and rings, including normal subgroups, quotient groups, ideals, quotient rings, group and ring homomorphisms, and isomorphisms.

456 Modern Algebra II (4)

Prerequisite: MATH 455. Additional topics in groups and rings, field extensions, modules.

457 Linear Algebra (4)

Prerequisite: MATH 455. Vector spaces over arbitrary fields, special types of linear transformations, eigenvalues and eigenvectors, canonical forms, scalar product spaces.

463 Introduction to Complex Analysis (4)

Prerequisite: MATH 465. Complex variables, analytic functions, complex integration, conformal mapping, applications.

465 Advanced Calculus I (4)

Prerequisites: MATH 209, 325. Real number system; topology of \mathbb{R}^n including compactness and completeness; sequences and series, including limit inferior and limit superior and continuity.

466 Advanced Calculus II (4)

Prerequisite: MATH 465. Differentiation and integration of function of a real variable; sequences of functions.

467 Advanced Calculus III (4)

Prerequisites: MATH 255, 465. Functions of several variables; partial derivatives; generalized chain rule; inverse and implicit function theorems; line and surface integrals.

470 Numerical Analysis I (4)

Prerequisites: MATH 208, 255. Facility in high-level programming language. Errors in floating point representation, nonlinear equations, systems of linear equations, polynomial interpolation, numerical integration and differentiation.

471 Numerical Analysis II (4)

Prerequisites: MATH 215, 470. Numerical solution of ordinary and partial differential equations, spline and least square approximation, fast Fourier transform.

472 Linear Programming (4)

Prerequisite: MATH 255. Geometric solutions, simplex method, the transportation problem, elementary game theory.

474 Theory of Probability (4)

Prerequisite: MATH 209. General probability spaces, random variables, joint distributions, random sampling, law of large numbers, normal, gamma, and binomial distribution.

475 Introduction to Mathematical Statistics (4)

Prerequisite: MATH 474. Estimation and tests of hypothesis, decision theory and Bayes solutions.

490 Senior Seminar in Mathematics (4)

Prerequisites: MATH 325, 390, 455. Varying topics in mathematics with technique and practice in written and oral exposition.

499 Undergraduate Directed Study (1–4)

Prerequisite: Consent of an instructor to act as a sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Graduate Level Courses (MATH)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by department and approval of graduate adviser: MATH 402A, 455, 465.

Classified graduate standing is required for admission.

501 Nonlinear Differential Equations (4)

Prerequisites: MATH 215 or 401; 466. Vector matrix notation, stability in nonlinear systems, Poincare phase plane, method of Liapounov, perturbation techniques.

502A Applied Linear Analysis I (4)

Prerequisites: MATH 215 or 401; 255; 410 or 467. Function Spaces, convergence, inner product, bounded linear operators, integral operators and integral equations, adjoint operators, expansion in eigenfunctions, resolvent kernel.

502B Applied Linear Analysis II (4)

Prerequisite: MATH 502A. Unbounded operators, differential operators of second order, Sturm-Liouville operators, eigenvalues and eigenfunctions, Green's Functions, and additional topics.

520 Calculus of Variations (4)

Prerequisites: MATH 255, 466. Euler-Lagrange equation for various types of extremal problems; fixed and variable end points; broken extremals; variational problems with constraints; canonical form and direct methods.

521 Mathematical Models and Optimizations (4)

Prerequisites: MATH 215, 255, 474. Topics from Markov chains and decision theory, game theory, programming algorithms, models for growth processes, applied graph theory, and theory of maxima and minima.

530 Topology (4)

Prerequisite: MATH 465. Basic concepts of point set topology: mappings, compactness, connectedness, separation properties, and metrization.

540AB Abstract Algebra I, II (4, 4)

540A: Prerequisite: MATH 455. Theory of groups, introduction to rings.

540B: Prerequisite: MATH 540A. Theory of rings and fields.

550 Seminar: Algebra (4)

Prerequisite: Approval of instructor. Readings and discussion of topics from group theory, ring theory, linear algebra, discrete mathematics, and combinatorics. May be repeated to maximum of 8 units with approval of graduate adviser.

551 Seminar: Analysis (4)

Prerequisite: Approval of instructor. Readings and discussion of topics from real analysis, complex analysis, functional analysis, and applied analysis. May be repeated to maximum of 8 units with approval of graduate adviser.

552 Seminar: Topology and Geometry (4)

Prerequisite: Approval of instructor. Readings and discussion of topics from general and algebraic topology, differential topology and geometry, and geometrical foundations. May be repeated to maximum of 8 units with approval of graduate adviser.

553 Seminar: Applied Mathematics (4)

Prerequisite: Approval of instructor. Readings and discussions of selected topics in field. May be repeated to maximum of 8 units with approval of graduate adviser.

562 Advanced Complex Analysis (4)

Prerequisite: MATH 463. Laurent series, singularities, residue problems, contour integration, conformal mapping, and additional topics.

570ABC Advanced Numerical Analysis (4, 4, 4)

570A: Prerequisite: MATH 470. Numerical solution of linear systems of equations, and eigenvalue problems, direct solutions, iterative solutions, with additional topics in linear algebra as time permits.

570B: Prerequisite: MATH 570A. Numerical solution of partial differential equations; finite-difference approximations, consistency, convergence, stability.

570C: Prerequisite: MATH 570B. Advanced topics in numerical analysis, as selected by the instructor.

580 Real Analysis (4)

Prerequisite: MATH 466. Theory of Lebesgue measure on the real line; theory of the Lebesgue integral and related convergence theorems.

584 Advanced Probability Theory (4)

Prerequisite: MATH 580. Probability spaces; random variables; abstract probability integrals, moments, convergence theorems; distribution and characteristic functions; central limit theorems; dependence.

591 Functional Analysis (4)

Prerequisite: MATH 466. Banach spaces, Hilbert spaces, linear functionals and operators, spectral theory.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent. Independent study of advanced topics in mathematics; regular conferences with instructor. May be repeated once.

599 Thesis (1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 4 units. Graded CR/NC.

Department of**Mechanical Engineering**

School of Engineering and Technology

DEPARTMENT OFFICE

Engineering and Technology A205

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Mechanical engineering, one of the most general branches of engineering, requires broad knowledge in many fields: mechanics, thermal science, design, machinery, instrumentation, and more. The breadth and flexibility of a mechanical engineer's education provide a wide choice of careers and allow movement into a variety of engineering areas.

Mechanical engineers are concerned with the production, transmission, and use of power. They design and develop machines that produce and/or use power. Many mechanical engineers are employed in manufacturing. The technical versatility and importance of mechanical engineers are demonstrated by the diversity of industries that employ them.

The Faculty

Professors: Neda S. Fabris, Stephen F. Felszeghy (Chair), Lih-Min Hsia, Raymond B. Landis, Ramachandra Manvi, Majdedin Mirmirani, Chivey C. Wu

Assistant Professor: Darrell W. Guillaume

Emeriti: Phillip I. Gold, Alfred H. Fritz, Charles M. Haberman, George E. Mann, Michael J. Maurer, Richard D. Roberto

Undergraduate Programs**Bachelor of Science****Degree in Mechanical Engineering**

The mechanical engineering program provides instruction in the basic sciences and in engineering design and analysis. During the junior and senior years, students may choose from a broad spectrum of electives to match individual talents and interests with a career objective. The major areas of course concentration are applied mechanics, machine design, computer-aided engineering, manufacturing, thermal sciences, and fluid dynamics.

Requirements for the Major (146 units)*Lower Division Required Courses (68 units)*

CS 290*	Introduction to FORTRAN Programming (2)
CHEM 101	General Chemistry I (5)
EE 210	Electrical Measurements Lab (1)
ENGR 100	Introduction to Engineering (1)
ME 103	Introduction to Mechanical Design (3)
CE/ME 201	Statics (4)
ME 204	Mechanical Measurements and Instrumentation (4)
CE/ME 205	Strength of Materials I (4)
ENGR 207	Materials Science and Engineering (4)
CE/ME 210	Matrix Algebra for Engineers (2)
CE/ME 211	Statistics and Probability for Engineers (2)
MATH 206–209	Calculus I–IV (4 each)
MATH 215	Differential Equations (4)
PHYS 201–204	General Physics (4 each)

* Students may substitute a course in any high-level programming language with department approval.

Upper Division Required Courses (51 units)

ENGR 300	Economics for Engineers (4)
ENGR 301	Ethics and Professionalism in Engineering (1)
ME 303	Fluid Mechanics I (4)
ME 306	Heat Transfer I (4)
ME 310	Mechanical Engineering Measurements Laboratory (1)
ME 312	Strength of Materials Laboratory I (1)
ME 319	Computer-aided Problem Solving in Mechanical Engineering (4)
ME 320	Dynamics I (4)
ME 323	Machine Design I (4)
ME 326AB	Thermodynamics I, II (4, 4)
ME 327	Manufacturing Processes (4)
ME 497ABC	Mechanical Engineering Senior Project (4, 4, 4)

Electives (27 units)

Select at least 24 units from lecture courses and three units from laboratory courses listed below: Select in consultation with permanent advisor.

Lecture Courses (24 units)

ME 321, 328, 402-404, 406-411, 414-416, 420-422, 425, 426, 428, 481, 454

Laboratory Courses (3 units)

ME 313, 315, 329, 412, 413, 417, 427, 491, 499

Graduate and Postbaccalaureate Programs

Master of Science Degree in Mechanical Engineering

The Master of Science degree in Mechanical Engineering at Cal State L.A. is structured to prepare students for advancement in employment with opportunities in design, research, and development, as well as for further study at the doctoral level. Classes are offered year-round on the quarter system to accommodate the needs of working professionals.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 24 in 500-level courses. A thesis or comprehensive examination is required.

The advice and approval of the mechanical engineering graduate adviser must be obtained before enrolling in any course. MATH 402A is required of all students who have not already completed this or a comparable course.

Area of Specialization (24–45 units)

Students must choose in advance a group of courses that fulfills their objectives. Approval of adviser and department chair is required. Suggested groupings of courses that cover programs in thermo-fluid systems design and mechanical systems design are available from the department office.

Select a minimum of 24 units in 500-level engineering courses; at least 16 units must be selected from the following list of mechanical engineering courses:

ME 501A	Advanced Mechanics of Particles (4)
ME 501B	Advanced Mechanics of Rigid Bodies (4)
ME 502	Theory of Elasticity (4)
ME 503	Design of Mechanical Systems and Products (4)
ME 504	Thermal Radiation (4)
ME 505	Heat Conduction (4)
ME 506	Heat Convection (4)
ME 508	Compressible Fluids (4)
ME 509	Viscous Fluids and Boundary Layer Theory (4)
ME 511	Vibrational Analysis II (4)
ME 512	Advanced Topics in Thermodynamics (4)
ME 521	Dynamic Systems Analysis (4)
ME 522	Optimal Control of Mechanical Systems (4)
ME 525	Process Mass and Heat Transfer (4)
ME 528	Metallforming Science and Applications (4)
ME 529	Machining Science and Applications (4)

Electives (0–21 units)

Select from 400 and 500-level courses in engineering or related fields, with adviser approval.

Comprehensive Examination or Thesis (0, 4 units)

ENGR 596	Comprehensive Examination (0) or
ENGR 599	Thesis (4)

Students who select the comprehensive examination (ENGR 596) should expect to take it the quarter they complete all course work on their program, and must comply with school and department requirements.

Certificate Program in Manufacturing

This certificate program in Manufacturing is designed to provide high quality, up-to-date, scientific, and practical knowledge of manufacturing processes, modern materials, automatic control, automated manufacturing, and robotics.

A baccalaureate degree in mechanical engineering, manufacturing engineering or in an allied field (physics, chemistry, mathematics) is required for admission to the program. A minimum of 27 units (including at least one elective laboratory) is required to complete the certificate program with a minimum grade point average of 3.0. At least one course has to be taken from each of the three designated areas of specialization below. Most courses require prerequisites taken previously either as a part of the B.S. degree or in preparation for this certificate program. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (minimum of 27 units)

Areas of Specialization

Manufacturing and Automation

ME 327	Manufacturing Processes (4)
ME 428	Automation and Computer-Aided Manufacturing (4)
ME 528	Metallforming Science and Applications (4)
ME 529	Machining Science and Applications (4)
TECH 465	Automated Metal Machining (3)

Control and Robotics

ME 410	Control of Mechanical Systems (4)
ME 481	Introduction to Robotics (4)
ME 491	Robotics Laboratory (1)
ME 521	Dynamic Systems Analysis (4)
ME 522	Optimal Control of Mechanical Systems (4)

Materials and Metallurgy

ENGR 207	Materials Science and Engineering (4)
ME 328	Introduction to Metallurgy (4)
ME 329	Metallography Laboratory (1)

List of Courses - (ME) Undergraduate Level

Lower Division Course

103 Introduction to Mechanical Design (3)

Prerequisite: TECH 110 or one year of high school mechanical drafting. Graphics for mechanical engineering design, freehand sketching of design ideas, use of computer-aided design (CAD) software for 2D mechanical drafting and 3D solid modeling, descriptive geometry, selected design projects.

154 Special Topics in Mechanical Engineering (1-4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in mechanical engineering, as announced in Schedule of Classes. May be repeated for credit.

201 Statics (4)**(also listed as CE 201)**

Prerequisites: MATH 207, PHYS 201. Fundamental principles of statics, resolution and composition of forces, algebraic and graphic solutions, friction, center of gravity, moment of inertia.

204 Mechanical Measurements and Instrumentation (4)

Prerequisite: PHYS 203. Introduction to electrical circuits, engineering measurements and instrumentation, introduction to automatic control systems and components.

205 Strength of Materials I (4)**(also listed as CE 205)**

Prerequisite: ENGR 201. Stressed and strains under axial, shearing, and torsional forces; flexural stresses and deflections of simple beams; columns; and combined stresses.

208 Statics and Strength of Materials (4)**(also listed as CE 208)**

Prerequisites: MATH 207, PHYS 201. Principles of statics, force systems and equilibrium, structures, machines distributed force, centroid, moment of inertia, stresses, strains and deformation under axial, torsional, and bending loads. For Electrical Engineering students only.

210 Matrix Algebra for Engineers (2)**(also listed as CE 210)**

Prerequisites: MATH 208, PHYS 201. Introduction to calculations using vectors; matrix operation; solution of linear simultaneous equations; coordinate transformation; application to engineering problems.

211 Statistics and Probability for Engineers (2)**(also listed as CE 211)**

Prerequisites: MATH 208, PHYS 201. Introduction to calculations using probability distributions and densities; concepts in statistics; application to engineering problems.

Upper Division Courses**303 Fluid Mechanics I (4)****(also listed as CE 303)**

Prerequisites: CE/ME 320, PHYS 202. Fundamental principles and methods of fluid mechanics; thermodynamics of fluid flow; Newtonian fluids; equations of fluid flow; laminar and turbulent flow; applications.

306 Heat Transfer I (4)

Prerequisites: CE/ME 303 or ME 326A; MATH 215. Fundamental principles of heat transfer; conduction, convection, and radiation; applications.

310 Mechanical Engineering Measurements Laboratory (1)

Prerequisite: Satisfactory completion of the graduation writing assessment requirement (GWAR), EE 210. Engineering measurements, laboratory safety and practices, design of experiments, transducers and instrumentation, computer data acquisition and control, data analysis, oral and written communication. Technical report writing. Laboratory 3 hours.

312 Strength of Materials Laboratory I (1)**(also listed as CE 312)**

Prerequisites: ME 310, ME 103; ENGR 205 (may be taken concurrently). Tests of engineering materials in tension, compression, bending, and torsion; verification by experiment of basic theories learned in strength of materials. Laboratory 3 hours.

313 Fluid Mechanics Laboratory I (1)**(also listed as CE 313)**

Prerequisites: CE/ME 303, ME 103. Experiments on fluid properties, fluid statics, conservation of mass, energy, and momentum, and fluid resistance. Laboratory 3 hours.

315 Thermal Systems Laboratory I (1)

Prerequisites: ME 310, ME 306, 326A. Experiments in heat transfer and thermodynamics; thermophysical properties of fluids; analysis, operation, and performance testing of thermal energy conversion systems. Laboratory 3 hours.

319 Computer-aided Problem Solving in Mechanical Engineering (4)

Prerequisites: CS 290 (or equivalent), ME 303, 306, 323, 326A. Application of computer-aided numerical and graphical methods to the solution of problems drawn from various areas of mechanical engineering. The computer-aided methods will be implemented using a combination of one or more computer programming languages and/or existing software packages.

320 Dynamics I (4)**(also listed as CE 320)**

Prerequisite: ENGR 201. Kinematics and kinetics of rigid bodies; work, kinetic energy, impulse, momentum in two and three dimensions; applications to space mechanics.

321 Kinematics of Mechanisms (4)

Prerequisites: ME 319. Transmission of motion; theory of mechanisms; linkages; gears; cams; belts and chains.

323 Machine Design I (4)

Prerequisite: ENGR 205. Application of principles of mechanics, properties of materials, and fabrication processes to design of simple machines and structural elements.

326A Thermodynamics I (4)

Prerequisites: MATH 208, PHYS 202. Concepts of equilibrium and temperature; first and second laws of thermodynamics. Properties of pure substances; ideal gases; application of thermodynamic principles to closed and open systems.

326B Thermodynamics II (4)

Prerequisite: ME 326A. Application of thermodynamic principles; steam generators, engines and turbines; combustion, vapor cycles; refrigeration; internal combustion engines.

327 Manufacturing Processes (4)

Prerequisite: ENGR 207. Manufacturing properties of metals, alloys, and nonmetallic materials; solidification processes; material forming; material removal; joining processes; unconventional processing; numerical control; and automated processes.

328 Introduction to Metallurgy (4)

Prerequisites: ENGR 207, ME 326A. Theory, composition, and properties of pure metals and alloys. Alloying, fabrication, and heat treatment of metals, with emphasis on nature of metals and their alloys.

329 Metallography Laboratory (1)

Prerequisite or corequisite: ME 328. Preparation of metallic samples and study of their internal structure by microscopic techniques. Laboratory 3 hours.

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

402 Advanced Mechanics of Materials (4)

Prerequisites: ME 323, MATH 215. Basic concepts; unsymmetrical beam bending, shear flow, energy methods; the finite element method; theories of failure; introduction to theory of elasticity, plane elastostatic problems; torsion of prismatic cylinders.

403 Aerodynamics (4)

Prerequisites: CE/ME 303, ME 319, MATH 215. Air-foil characteristics; transonic, supersonic, and viscous effects on lift and drag; power considerations, airplane performances, introduction to airplane and missile stability and control.

404 Turbomachinery (4)

Prerequisites: CE/ME 303, ME 326B. General treatment of all forms of turbomachines; energy transfer, thermodynamics of compressible flow and flow of fluids in passages and over blades of turbomachines; application to pumps, compressors, hydraulic, gas, and steam turbines.

406 Heat Transfer II (4)

Prerequisites: ME 306, CS 290. Numerical methods in conduction; theory and applications of convection; thermal radiation, condensing and boiling heat transfer; mass transfer special topics.

407 Design of Thermal Systems (4)

Prerequisites: ENGR 300; ME 306, 326B. Design in engineering practice; system simulation and optimization; economic, environmental, other constraints; practical aspects of equipment selection; thermal design literature.

408 Fluid Mechanics II (4)

Prerequisites: CE/ME 303; ME 319; MATH 215. Compressible and incompressible fluid dynamics; continuity, momentum, and energy equations for viscous fluids; circulation and vorticity, Navier-Stokes equation, boundary layer theory, turbulence, two-dimensional flow, three-dimensional flow.

409 Mechanical Engineering Analysis (4)

Prerequisites: CE/ME 320, ME 306. Setup of vibration, heat transfer, fluid flow, and other mechanical engineering systems as ordinary and partial differential equations; analogies between various physical systems. Classical, transform, numerical, and computer-aided methods of solution.

410 Control of Mechanical Systems (4)

Prerequisites: CE/ME 303, ME 306, CS 290, MATH 215. Mathematical models of dynamic systems, fundamentals of feedback control, basic control actions and devices, applications to mechanical systems.

411 Vibrational Analysis I (4)

Prerequisites: CE/ME 320, MATH 215. Analysis of free and forced vibrations with and without damping, systems with several degrees of freedom, vibration isolation, mechanical transients, torsional vibrations, natural frequency computation techniques, finite element analysis software.

412 Strength of Materials Laboratory II (1)

Prerequisite: CE/ME 312; prerequisite or corequisite: CE 360 or ME 323. Fatigue tests of materials and connections, stress concentration, photoelasticity, creep tests, shock and vibration tests, combined stresses, and individual projects. Laboratory 3 hours.

**413 Fluid Mechanics Laboratory II (1)
(also listed as CE 413)**

Prerequisite: CE/ME 313; prerequisite or corequisite: CE 387 or ME 408. Experiments on subsonic and supersonic flow, free surface flow, pumps, turbines, fans, and unsteady flow.

414 Machine Design II (4)

Prerequisite: ME 323. Design of unit assemblies and machines; materials, safety, lubrication, and construction.

415 Air Conditioning (4)

Prerequisites: ME 306, 326B. Psychometric properties of air, heat loads, air conditioning and heating equipment, and air distribution.

416 Energy Systems (4)

Prerequisite: ME 326B. Unconventional energy conversion systems, energy storage, thermoelectric power and refrigeration, absorption refrigeration and cryogenics.

417 Machine Analysis Laboratory (1)

Prerequisites: ME 310, 321, 323. Experimental analysis of steady state and transient characteristics of machine components and of complete machines. Laboratory 3 hours.

420 Power Plants (4)

Prerequisite: ME 326B. Survey of power generating systems, theoretical analysis of power cycles; preliminary design calculations for sizing power station equipment.

421 Dynamics of Mechanisms (4)

Prerequisite: ME 321. Application of principles of statics, kinematics, and dynamics to analysis and design of mechanisms with rotating or reciprocating masses.

422 Optimization of Mechanical Engineering Systems (4)

Prerequisite: ME 319; prerequisite or corequisite: ME 323. Design considerations of mechanical engineering systems; optimization techniques; application of existing computer programs and analytical methods to optimization of mechanical engineering systems.

425 Process Heat Transfer (4)

Prerequisite: ME 306. Computer-aided design of single-phase heat exchangers including surface area, pressure drop, and flow arrangement. Prediction of process conditions for heat transfer systems, including pipe flow and pumping specifications.

426 Thermodynamics III (4)

Prerequisites: ME 319, 326B. Application of thermodynamic principles. Thermodynamic relations, real gases and mixtures, applications of corresponding states principle, concepts of stability and equilibrium, homogeneous and heterogeneous equilibria, third law.

427 Thermal Systems Laboratory II (1)

Prerequisite: ME 315; prerequisite or corequisite: ME 326B. Projects in thermal systems engineering: design and planning experiments and test procedures; instrumentation selection; data analysis and reporting.

428 Automation and Computer-Aided Manufacturing (4)

Prerequisite: ME 327. Automation of manufacturing processes, numerical control, computer-aided manufacturing, group technology, flexible manufacturing, applications of robots in industry.

454 Special Topics in Mechanical Engineering (1-4)

Prerequisites: Senior standing in mechanical engineering; enrollment subject to approval of instructor in charge. Group study of selected topics not currently offered as technical electives; study groups may be organized in advanced mechanical engineering subjects upon approval of instructor. May be repeated for credit.

481 Introduction to Robotics (4)

Prerequisite: EE 360 or ME 410. General considerations of robotic manipulator; spatial description, homogeneous transformations; manipulator kinematics; inverse manipulator kinematics; motion trajectories; static forces.

491 Robotics Laboratory (1)

Prerequisite or corequisite: ME 481. Robot system installation; programming and languages; link kinematics and motion planning; control of the arm; automated manufacturing and computer-integrated manufacturing (CIM).

497ABC Mechanical Engineering Senior Project (4, 4, 4)

Prerequisite: Satisfactory completion of the graduation writing assessment requirement (GWAR), Senior standing and/or consent of the instructor. Study of engineering design processes. Selection and completion of a faculty-supervised project focusing on typical problems encountered in engineering practice and resulting in a formal report and oral presentation. Must be taken in sequence starting with ME 497A.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with the sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit.

Graduate Level Courses (ME)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses

501A Advanced Mechanics of Particles (4)

Prerequisite: ME 421. Analytical approach to kinematics and dynamics of particles in three-dimensional space.

501B Advanced Mechanics of Rigid Bodies (4)

Prerequisite: ME 501A. Analytical approach to kinematics and dynamics of rigid bodies in three-dimensional space.

502 Theory of Elasticity (4)

Prerequisite: ME 402. Stress-strain relations, equations of linear elasticity, energy methods, boundary value problem, thermoelasticity, nonlinear elasticity, applications in structural and machine design.

503 Design of Mechanical Systems and Products (4)

Prerequisite: ME 414. Principles of design; value criteria; manufacturing and human factors; computer-aided simulation and analysis; synthesis of design.

504 Thermal Radiation (4)

Prerequisite: ME 406. Thermodynamics and physics of thermal radiation and its interactions with matter; formulation and solution of radiative transfer equations for surfaces and enclosures by means of exact, approximate, and numerical methods; applications to selected topics.

505 Heat Conduction (4)

Prerequisite: ME 406. Fundamentals of heat conduction, solution of steady and unsteady state heat conduction problems by means of exact, approximate, and numerical methods; applications to selected topics.

506 Heat Convection (4)

Prerequisite: ME 406 or 408. Development of equations describing fluid motion and heat convection. Analytical and experimental results for free and forced convection and for changes in phase.

508 Compressible Fluids (4)

Prerequisite: ME 408. One-dimensional gas dynamics; shock waves in supersonic flow; flow in ducts and nozzles; applications to high-speed aerodynamics; multidimensional and unsteady frictionless flow; solution by small perturbation theory and method of characteristics.

509 Viscous Fluids and Boundary Layer Theory (4)

Prerequisites: ME 408, MATH 402A. Derivation of Navier-Stokes and boundary layer equations. Solutions for very slow, viscous motion, incompressible and compressible laminar boundary layers, introduction to turbulent boundary layer theory. Heat transfer and aerodynamic applications.

511 Vibrational Analysis II (4)

Prerequisite: ME 411. Analysis of multidegree of freedom systems, continuous systems, random vibrations, finite element software.

512 Advanced Topics in Thermodynamics (4)

Prerequisite: ME 426 or CHEM 414. Advanced study of selected topics in thermodynamics with applications to engineering systems; review of current literature.

521 Dynamic Systems Analysis (4)

Prerequisite: ME 409 or 410. Dynamic behavior of physical systems; input-output and state space representation of linear continuous-time and discrete-time systems; controllability, observability, and stability of linear systems; examples of mechanical, thermal, fluid, and electrical systems.

522 Optimal Control of Mechanical Systems (4)

Prerequisite: ME 410 or 422. State space representation of continuous-time and discrete-time dynamic systems, problem statement of optimal control and performance index, maximum principle, design of linear optimal control systems, mechanical system examples.

525 Process Mass and Heat Transfer (4)

Prerequisite: ME 415. Principles of mass transfer by diffusion, evaporation and condensation phase equilibrium, two-phase flow. Applications such as cooling towers, heat exchangers, vaporizers, evaporators, reboilers, distillation, and desalinization.

528 Metalforming Science and Applications (4)

Prerequisite: ME 414. Nature and purpose of metalworking theory, determination of working loads, drawing and rolling of flat slabs and strips, deep drawing, extrusion, forging, punching and piercing, friction and lubrication in metalworking.

529 Machining Science and Applications (4)

Prerequisite: ME 414. Deformation of materials during machining; mechanics of orthogonal cutting; cutting fluids; tool wear; tool life and machinability; vibrations in cutting; practical machining operations; and modern machining processes.

596 Comprehensive Examination (0)

Permission needed by department. Students who select the comprehensive examination (ME 596) should expect to take it the quarter they complete all course work on their program, and must comply with school and department requirements.

597 Graduate Research (1-5)

Prerequisites: Instructor consent to act as sponsor, departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit to maximum of 5 units. Graded CR/ NC.

598 Graduate Directed Study (1-4)

Prerequisites: Instructor consent to act as sponsor, and departmental approval. Independent, directed study of advanced topics in the field, regular conferences with the sponsor. May be repeated for credit.

599 Thesis (1-4)

Prerequisites: Advancement to candidacy, instructor consent to act as a sponsor, school approval of the topic prior to registration. Independent research resulting in a thesis. Must be repeated to maximum of 4 units. Graded CR/ NC.

Department of

Modern Languages and Literatures

School of Arts and Letters

DEPARTMENT OFFICE

King Hall D1054

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E-mail modlang@calstatela.eduWebsite: www.calstatela.edu/academic/mld/mainpa1.htm**LANGUAGE LABORATORY**

King Hall D1041

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ADVISEMENT OFFICE

King Hall D1042

Telephone: (323) 343-4229

The Department of Modern Languages and Literatures offers programs leading to the Bachelor of Arts degree in French, Japanese, and Spanish, as well as minors in Chinese, French, Japanese, and Spanish. In addition, classes are periodically offered in other languages such as Armenian, German, Korean, Italian, Latin, Portuguese, Russian, Thai, and Vietnamese. The Department also offers Master of Arts degrees in French and Spanish.

The Faculty

Professors: Joseph A. Chrzanowski (Chair), Domnita Dumitrescu, Jeanine S. Gaucher-Morales, Alfonso González, G. Grant MacCurdy, Hildebrando Villarreal, Eri F. Yasuhara, Frank W. Young

Associate Professors: María Dolores Costa, Felipe Díaz, Qingyun Wu

Assistant Professors: Gretchen Angelo, Kylie Hsu, Christophe Lagier, Ignacio López-Calvo, Sachiko Matsunaga, Catherine Ryu

Emeriti: Alfred F. Michael Atlee, Abdallah J. Beddawi, Dale Carter, Matilde O. Castells, Kazumitsu Kato, Hugh W. Kennedy, Harold E. Lionetti, Alfredo O. Morales, Françoise M. Pasques, Elba Torres de Peralta, Leon Schwartz, Marie-Antoinette U. Zrimc

Advanced Placement Credit

Course and unit credit are granted for a score of 4 or 5 on Advanced Placement Language and Literature Examinations. Students should consult the department for more information.

Placement Examinations

The Department of Modern Languages and Literatures administers placement examinations to assist students in determining their level of language proficiency.

Sequence of Classes

Prerequisite courses must be completed prior to enrollment. Prerequisites appear in course descriptions in this catalog. Exceptions may be approved by departmental petition for qualified students having compelling reasons. Petitions should be filed prior to registration.

Reading Examinations

The Department of Modern Languages and Literatures administers Reading Examinations in selected languages. Students in undergraduate or graduate programs needing to verify proficiency in a language other than English must enroll in ML 901 or 902, as appropriate, in the quarter in which any such examination is to be taken. Students failing ML 902 are required to take an appropriate course prior to retaking the examination.

Limitation on Language Credit

Equivalent courses taken at the college level may not be repeated for credit toward a degree. A student with one year of high school language would normally be expected to enter

100B; a student with two years of high school language would enter 100C; with three years, 200A, and so on. However, it is recognized that special circumstances may make it advisable for some students to start at higher or lower levels. Therefore, the department will allow certain students who have studied a language other than English exclusively at the high school level to depart from the equivalency formula specified above after consultation and with the recommendation of a properly designated adviser.

Students who completed their secondary education in a foreign country where a language other than English is spoken natively may not receive credit for elementary language and Lower Division conversation courses in that language.

Limitations on Credit for "Non-Traditional" Courses

A total of eight units of the following courses may be applied to major programs in the department: FREN 499, JAPN 395, ML 392, 399, 496, and SPAN 499. Exceptions may be made only in extraordinary circumstances and with the approval of the departmental adviser and chair.

Assessment

Majors in the Department of Modern Languages and Literatures must demonstrate the skills and knowledge appropriate to their baccalaureate degree. This is done by means of assessment procedures that include completion of required and elective courses, evaluation of language proficiency upon enrollment at the Upper Division level, assignment to a faculty mentor, and the submission of a portfolio. For more information, students should contact the

Department of Modern Languages and Literatures prior to enrolling in Upper Division courses.

Undergraduate Programs

The Credential Program

When designated courses are completed as part of the Bachelor of Arts degree programs in French, Japanese, and Spanish, these programs are approved by the California Commission on Teacher Credentialing to satisfy the requirements for subject area competency in those languages.

Students having less than a 3.0 average in courses in their major program should contact the Department of Modern Languages and Literatures for information regarding alternative ways of qualifying for admission to directed teaching.

Students who completed their baccalaureate in a modern language at another college or university and who wish to satisfy the requirements of an approved subject area program in that language should contact the Department of Modern Languages and Literatures for information.

Students who have passed the examination(s) approved by the California Commission on Teacher Credentialing to satisfy the requirements for subject area competency in lieu of completion of a program approved to satisfy competency requirements in a specific language should contact the Department of Modern Languages and Literatures for more information.

Foreign Language Cooperative Program (FLCP)

Courses in the Foreign Language Cooperative Program (FLCP 288 lower division, FLCP 488 upper division) are designed to give eligible students the opportunity to study at UCLA a language other than English that is not offered at this campus or any neighboring CSU campus. For information regarding enrollment and qualifications, consult the Department of Modern Languages and Literatures.

Chinese

Minor in Chinese

A minor in Chinese is available for students majoring in other fields. It may be of particular value to students interested in studying languages and literatures; history of East Asia in general and China especially; political science; or employment with the government, international business firms, or international agencies. A total of 32 units in Chinese is required, of which 12 are in Lower Division and 20 are in Upper Division courses.

Requirements for the Minor (32 units)

Lower Division Required Courses (12 units)

CHIN 200ABC Intermediate Chinese (Mandarin) (4, 4, 4)

Upper Division Required Courses (16 units)

CHIN 300AB Advanced Chinese I, II (Mandarin) (4, 4)
CHIN 310 Chinese Civilization (4)
CHIN 322 Newspaper Chinese (4)

Electives

Select 4 - 16 units:

CHIN 408 Chinese Literature I (4)
CHIN 410 Chinese Literature II (4)
CHIN 454L Special Topics in Chinese (4)
CHIN 454P Special Topics in Chinese (4)
ML 399 Directed Reading (4)

French

Bachelor of Arts Degree

The study of French is conducive to proficiency in oral and written communication and also provides training in a humanistic discipline. It enhances enjoyment of travel abroad, foreign films, and great literary works. Students who achieve a mastery of French may enter the teaching profession or work as translators, interpreters, or bilingual secretaries. Their skills are also useful in careers associated with international business, the Foreign Service, and the news media.

The undergraduate program in French includes a major for the Bachelor of Arts degree and a minor to accompany a major in another field. The Master of Arts degree program is described in the Graduate Programs section.

Requirements for the Major (68 or 72 units)

Students complete a common core of 12 Lower Division units and 36 Upper Division units, and a minimum of 20 units of Upper Division electives. Those seeking to qualify for the Single-Subject Credential in French must take all courses identified by an asterisk and complete a total of 72 units, including ML 496 (and both 310A and 310B); other students complete 68 units. At least 24 units must be earned in residence at Cal State L.A. FREN 100ABC or 130 is prerequisite to entrance into the program and may be satisfied

by appropriate high school preparation or by examination. Students entering at the 300-level must substitute 12 units of Upper Division courses for FREN 200AB and 201.

Lower Division Required Courses (12 units):

FREN 200AB Intermediate French (4, 4)
FREN 201 Conversation and Composition (4)

Upper Division Required Courses (36 units):

FREN 300AB Advanced Grammar and Reading (4, 4)
FREN 305 Phonetics (4)
FREN 310A French Culture and Institutions (4) **OR**
FREN 310B French Culture and Institutions (4)
FREN 401 Cours de Style (4)
FREN 410 Introduction to French Prose and Dramatic Literature I (4)

Upper Division Required Courses (cont'd):

FREN 411 Introduction to French Prose and Dramatic Literature II (4)
FREN 413 Panorama de la Francophonie (4)
ML 400 Research Methods in Modern Languages (4)

Upper Division electives (20 or 24 units)

*FREN 310A French Culture and Institutions (4)
*FREN 310B French Culture and Institutions (4)

FREN 380	Commercial French (4)
*FREN 403	Contrastive Analysis of French and English Structures (4)
*FREN 405	Translation (4)
FREN 412	Masters of French Poetry (4)
FREN 450	Selected Topics in French Literary Prose (4)
FREN 451	Selected Topics in French Dramatic Literature (4)
FREN 454	Special Topics in French and Francophone Literature (4)
FREN 461	Masters of French Literature in Translation (4)
FREN 471	The French Film (4)
*ML 496	Instructional Practicum (4)

No more than 24 units of 300-level courses permitted; FREN 461 and 471 may not be used to qualify for the Single-Subject Credential in French.

*Required for Single-Subject Credential in French

Minor in French

A minor in French is available for students majoring in other fields. It may be of particular value to students interested in the study of languages and literatures, the history of Europe or of French-speaking countries, political science, or in employment with the government, international business firms, or international agencies.

Requirements for the Minor (40 units)

Lower Division required courses (12 units):

FREN 200AB	Intermediate French (4, 4)
FREN 201	Conversation and Composition (4)

Upper Division required courses (12 units):

FREN 300AB	Advanced Grammar and Reading (4, 4)
FREN 310A	French Culture and Institutions (4)

or

FREN 310B	French Culture and Institutions (4)
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Upper Division electives

Select 16 units from the following:

FREN 305, 310A, 310B, 380, 401, 405, 410, 411, 412, 413

German and Italian

German

The Department of Modern Languages and Literatures does not offer a major or a minor in German. However, courses in German are periodically offered for students majoring in other fields. The study of German may be of particular value to students of music, science, history, or political science. Knowledge of German may be helpful in securing employment with U.S. or international agencies or with international business firms.

Italian

The Department of Modern Languages and Literatures does not offer a major or a minor in Italian. However, courses in Italian are periodically offered for students majoring in other fields. The study of Italian may be of value to students preparing to teach Romance languages; to those interested in the culture of Italy; or to those preparing for language prerequisites to graduate degrees.

Japanese

Bachelor of Arts Degree

The program in Japanese includes a major for the Bachelor of Arts degree and a minor. The program places emphasis on the development of functional communicative skills in Japanese and offers in-depth study of Japanese literature, language, and civilization.

Acquiring functional skills in listening, speaking, reading, writing, and culture gives students direct access to the Japanese people and society, enabling them to better understand and interact with the people of Japan today. The study of Japanese literature, language, and civilization broadens intellectual horizons, fosters appreciation of cultural and linguistic diversity, and helps equip students to take their place as global citizens of the twenty-first century.

Students who wish to qualify for the Single-Subject credential should note the requirements described below, and are referred to the **Charter School of Education** section of the **Undergraduate Studies: General Information** chapter of this catalog for regulations governing all teaching credential programs.

Requirements for the Major (60-64 units)

A total of 60 or 64 units is required, including at least 24 units earned in residence at Cal State L.A. Elementary and Intermediate Japanese (JAPN 100ABC OR 130 AND JAPN 200ABC), or an equivalent level of proficiency, are prerequisite to the major.

All students take a required common core of 52 units and 8 units of electives for a total of 60 units. Students seeking the Single-Subject matter program in Japanese are required to take ML 496 (4 units) for a total of 64 units.

Required Common Core Courses (52 Units)

JAPN 300ABC	Advanced Japanese (4, 4, 4)
JAPN 310	Japanese Civilization to 1660 (4) and
JAPN 311	Japanese Civilization since 1600 (4)
*JAPN 315	Language in Japanese Society (4) or
*JAPN 320	Introduction to Japanese Linguistics (4)
JAPN 400ABC	Advanced Reading and Composition (4,4,4)
JAPN 408	Classical Japanese Literature (4) and
JAPN 410	Modern Japanese Literature (4)
*JAPN 450	Proseminar: Japanese Linguistics (4) or

Required Common Core Courses (cont'd)

JAPN 460	Proseminar: Masters of Japanese Culture and Thought (4)
ML 400	Research Methods in Modern Languages (4)

Electives (8 units)

Select 8 units from the following:

JAPN 307, *315, *320, *403, *450, 454L,P, 460

*Required for the Single-Subject credential

Additional required course for the single-subject matter program (4 units)

ML 496 Instructional Practicum (4)

Minor in Japanese

A minor in Japanese is available for students majoring in other fields or those with an interest in East Asia in general. It may be of particular interest to students studying history, international relations, other languages and literatures, business, or technology, as well as to those seeking employment with the government or international agencies.

Prerequisite: Elementary and intermediate Japanese (JAPN 100ABC or 130 and JAPN 200ABC) or an equivalent level of proficiency. The minor requires completion of 36 units in Japanese as listed below.

Requirements for the Minor (36 units)

Upper Division Required Courses (24 units):

JAPN 300ABC(4, 4, 4)

JAPN 400ABC(4, 4, 4)

Electives

select 12 units from following:

310, 311, 315, 320, 403, 408, 410, 450, 460

Latin, Portuguese and Russian

Latin

The Department of Modern Languages and Literatures does not offer a major leading to the Bachelor of Arts degree in Latin, nor a minor to accompany a major in another field. However, courses in Latin are periodically offered for students majoring in other fields. The study of Latin may be of value to students anticipating graduate study, preparing to teach Romance languages, or who are interested in the Classics and in Roman and Early Christian history.

Portuguese

The Department of Modern Languages and Literatures does not offer a major leading to a Bachelor of Arts degree in Portuguese or a minor to accompany a major in another field.

However, courses in Portuguese are periodically offered for students majoring in other fields. The study of Portuguese may be of value to students interested in Latin American Studies or to those preparing to teach Romance languages.

Russian

The Department of Modern Languages and Literatures does not offer a major leading to a Bachelor of Arts degree in Russian or a minor to accompany a major in another field. However, courses in Russian are periodically offered for students majoring in other fields. The study of Russian may be of value to students who wish to acquire knowledge of the Russian language, culture, and literary forms.

Spanish

Bachelor of Arts

The undergraduate program includes a major for the Bachelor of Arts degree and a minor for students majoring in other fields. The Master of Arts degree is described in the Graduate Programs section.

Requirements for the Major (68 or 70 units)

Students complete a common core of 32 Upper Division units and a minimum of 36 units of Upper Division electives. Those seeking to qualify for the Single-Subject Credential in Spanish must take 38 units of upper-division electives, including all courses identified on the program by an asterisk. Prior to beginning the Bachelor of Arts program in Spanish, students must have completed the second year of college-level Spanish or demonstrate equivalent language competency on the department's placement examination.

Upper Division Required Courses (32 units)

SPAN 300AB Composition and Grammar (4, 4)
 SPAN 305 Introduction to Spanish Linguistics (4)
 SPAN 401 Introduction to Hispanic Literary Analysis (4)
 SPAN 408 Spanish Literature I (4)
 SPAN 413 Spanish-American Literature II (4)
 SPAN 310 Spanish Civilization (4) **or**
 SPAN 315 Spanish-American Civilization (4)
 ML 400 Research Methods in Modern Languages (4)

Upper Division Electives (36 or 38 units)

SPAN 310 Spanish Civilization (4)
 SPAN 315 Spanish-American Civilization (4)
 *SPAN 320 Phonetics (4)
 *SPAN 350 Translation (4)
 SPAN 351 Spanish for Interpreters (4)
 SPAN 380 Commercial Spanish (4)
 *SPAN 400A Spanish Morphology (4)
 *SPAN 400B Syntax (4)

*SPAN 403 Grammatical Structures of Spanish and English (4)
 SPAN 461 Proseminar in Hispanic Linguistics (4)
 SPAN 410 Spanish Literature II (4)
 SPAN 414 Don Quixote de la Mancha (4)
 SPAN 418 Golden-Age Prose (4)
 SPAN 424 Golden-Age Drama (4)
 SPAN 426 19th Century Spanish Novel (4)
 SPAN 428 Generation of '98 (4)
 SPAN 472 Contemporary Spanish Prose (4)
 SPAN 411 Spanish-American Literature I (4)
 SPAN 417 Spanish-American Short Story (4)
 SPAN 419 Colonial Spanish-American Literature (4)
 SPAN 421 Mexican Literature of the 20th Century (4)
 SPAN 429 19th Century Spanish-American Literature (4)
 SPAN 435 Ruben Dario and Modernismo (4)
 SPAN 475 Proseminar: Spanish American Theater (4)
 SPAN 483 Contemporary Spanish-American Novel (4)

Upper Division Electives (cont'd)

SPAN 485 Southern Cone Fiction (4)
 **SPAN 440 Hispanic Film (4)
 SPAN 454 Special Topics in Hispanic Literature (4)
 **SPAN 459 Hispanic Play Production (4)
 SPAN 460 Masters of Hispanic Culture and Thought (4)
 MUS 458 Music of Spanish America (4)
 *ML 496 Instructional Practicum (2)

No more than 24 units of 300-Level courses permitted.

**Required for Single-Subject Credential in Spanish.*

***Not applicable to subject matter program.*

Minor in Spanish

A minor in Spanish, totaling 40-44 units, depending on prior experience with the language, is available for students

majoring in other fields. Following completion of a common core, students select a total of two to three electives. Electives encompass literature, linguistics, and civilization, as well as applied language. Those interested in broadening

their knowledge and understanding of the Hispanic language and culture would typically complete SPAN 320, 408 or 410, 411 or 413, and either 310 or 315. Students whose career goals require communicative proficiency in Spanish are encouraged to enroll in SPAN 350, 397, and 400A. SPAN 100ABC or 130 is prerequisite to this program and may be satisfied by appropriate high school preparation or by examination.

Requirements for the Minor (40-44 units)

Lower Division Required Courses (8 or 16 units)

SPAN 115 (4) plus 200ABC (4, 4, 4) or
SPAN 205AB (4, 4)

Upper Division Required Courses (20 units)

SPAN 300AB, 305, 401

Select from following (4 units):

SPAN 310, 315

Electives

Select 8-12 units from following:

SPAN 320, 350, 351, 380, 395N, 397, 400A, 408, 410, 411, 413

Graduate and Postbaccalaureate Programs

Proficiency Examinations

Foreign language proficiency examinations are administered by the Department of Modern Languages and Literatures. Students in programs requiring proficiency in a foreign language must enroll in ML 901 or 902, as applicable, in the quarter in which any such examination is to be taken. Students failing ML 902 are required to take an appropriate course prior to retaking the examination.

Master of Arts in French

The Master of Arts degree in French is designed to enable students to attain a high level of proficiency in the French language and its literature and to employ it skillfully in such pursuits as teaching, writing, translating, and communications, or as preparation for undertaking doctoral study.

Admission to the Program

In addition to applying to the University, applicants must file a departmental application for admission along with official transcripts of all previous college work. These documents must reach the department early in the quarter preceding that in which course work for the degree is to begin. Applicants who hold a baccalaureate from Cal State L.A. and have not attended another college since graduation must also file a departmental application early in the quarter preceding graduate enrollment. No transcripts are required.

In addition to University requirements for admission to graduate study, applicants must have a Bachelor of Arts degree in French, or equivalent, and a minimum *B* (3.0) grade point average in Upper Division French courses. Applicants must also satisfy the departmental standards for oral proficiency in French. In addition, beginning Latin is recommended prior to enrollment in FREN 501.

Requirements for the Degree (48 units)

A total of 48 units is required, with at least 24 in 500-level courses.

Required Courses (28 units)

Language and Linguistics (8 units)

FREN 501 Development of French Language (4)

FREN 509 Analytical and Interpretive Writing in French (4)

Literature (16 units)

FREN 450 Selected Topics in French Literary Prose (4) *or*

FREN 451 Selected Topics in French Dramatic Literature (4)

FREN 535 Seminar: French Literary Prose since World War II (4)

FREN 575 Seminar: French Literature (4, 4)

Culture (4 units)

FREN 510 Seminar: French Culture (4)

Electives (20 units)

Select French courses below that have not been taken previously.

FREN *401, *403, 405, *412, 450, 451, 461, 471, 575, 598

**Must be taken if not completed in undergraduate status*

Comprehensive Examination (0 units)

Students should expect to take the comprehensive examination (FREN 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

Master of Arts Degree in Spanish

The Master of Arts degree in Spanish is designed to enable students to attain a high level of proficiency in the Spanish language and its literature, and to employ it skillfully in such pursuits as teaching, writing, translating, and communications, or as preparation for doctoral study.

Admission to the Program

In addition to applying to the University, applicants must file a departmental application for admission along with official transcripts of all previous college work. These documents must reach the department early in the quarter preceding that in which course work for the degree is to begin. Applicants who hold a baccalaureate from Cal State L.A. and have not attended another college since graduation must also file a departmental application early in the quarter preceding graduate enrollment. No transcripts are required.

Upon admission to the program, students must designate either a literature or linguistics emphasis.

In addition to University requirements for admission to graduate study, applicants must have a Bachelor of Arts degree in Spanish or equivalent, including SPAN 401, a minimum 2.75 grade point average in the last 90 quarter units, and a *B* (3.0) grade point average in Upper Division Spanish courses. Applicants are required to demonstrate proficiency in oral and written Spanish in accordance with criteria established by the department.

Requirements for the Degree (48 units)

A total of 48 units is required, with at least 28 in 500-level courses.

Required Courses (28 units)

SPAN 501	Development of Spanish Language (4)
SPAN 504	Studies in Medieval Literature (4)
SPAN 510	Sociolinguistic Patterns in Spanish (4)
SPAN 540	Seminar: Contemporary Spanish Poetry (4)
SPAN 545	Seminar: Contemporary Spanish-American Poetry (4)
SPAN 575	Seminar: Hispanic Literature (4)
SPAN 583	Seminar: Contemporary Hispanic Prose (4)

Electives

Select 20 units from following:

SPAN 414, 417, 418, 419, 421, 424, 426, 428, 429, 435, 460, 461, 472, 475, 483, 485, 499, 500, 506, 507, 575, 583, 598

In extraordinary circumstances and with graduate adviser approval, students may select up to 8 units of electives from one or more related fields.

Comprehensive Examination (0 units)

The comprehensive examination in Spanish is structured to reflect the two emphases within the master's degree program: literature and linguistics. The format of the comprehensive examination follows:

Spanish Literature: Beginning to 1800

Spanish Literature: 1800-Present

Spanish-American Literature: Beginning to 1910

Spanish-American Literature: 1910-Present

Historical Linguistics

Synchronic Linguistics

The comprehensive examination will reflect the emphasis chosen in the following manner:

Literature Emphasis: Each of the four literature examinations will be 90 minutes in duration; each of the two linguistics examinations will be 60 minutes in duration.

Linguistics Emphasis: Each of the four literature examinations will be 75 minutes in duration; each of the two linguistics examinations will be 90 minutes in duration. The comprehensive examination is normally scheduled for the Fridays of the sixth and seventh weeks of instruction in the Fall and Spring Quarters. Students should expect to take the comprehensive examination (SPAN 596) as soon as practicable after completing all course work on their program, but no earlier than the quarter in which they complete all course work on their program, and must comply with school and departmental requirements.

List of Courses - Undergraduate Level

Courses in Modern Languages (ML)

Lower Division Courses

140 Modern Languages and the Criminal Justice System (4)

Prerequisite: Completion of any course in a language other than English is recommended. Introduction to verbal behavior in languages other than English in settings common to the criminal justice system.

154 Special Topics in (a) Modern Language (1-5)

Topics of special interest to students of modern language, as announced in Schedule of Classes.

Upper Division Courses

300 Language Diversity in Urban America (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Study of the nature and socio-cultural impact of language diversity in urban America.

GE Theme D

312 Mediterranean and Pre-Columbian Myths in Latin America Literature (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block C. Critical readings of modern Latin American narrative fiction, poetry and drama, with interpretive emphasis in their allusions to Greco-Roman and Pre-Columbian myths.

GE Theme I

382 Maturity and Aging in East Asian and Romance Literatures (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical examination and comparison of the themes of maturity, aging and human development in East Asian and Romance literatures.

GE Theme E

389 Human Emotions in Literary Expression (4) (also listed as ENGL 389)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Emotions such as love, anger, laughter, fear, joy, sorrow, guilt, pain or oppression, as represented in prose and poetic forms of various cultures.

GE Theme E

392 Literary Gazette (1-4)

Prerequisites: Upper Division standing, instructor consent. Techniques of producing a university literary magazine. May be repeated to maximum of 6 units. Graded CR/NC.

399 Directed Reading (1-4)

Prerequisite: Consent of adviser. Readings in a modern language about topics of interest to student under direction of faculty member; regular oral and/or written reports in the language.

400 Research Methods in Modern Languages (4)

Prerequisite: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Exploration of methods of research and documentation in the field of modern languages and literatures. Writing research papers, reports, and essays. All discussions and writing in English.

354L,P Special Topics in (a) Modern Language (1-4)

Prerequisites: As needed for specific topic. Topics of special interest to students in modern languages as announced in Schedule of Classes.

460 Cultural Crosscurrents in Literature (4)

Prerequisite: Upper Division standing. Study of a distinctive theme, movement, or genre in a number of Western and non-Western literatures in languages other than English. Conducted in English. May be repeated to maximum of 8 units for credit as content changes.

496 Instructional Practicum (1-4)

Prerequisites: Minimum 3.0 grade point average in major, completion of 400-level grammar class in major, approval by coordinator. Supervised experience in instructional activities related to the teaching of a second language. Regular progress meetings required. May be repeated to maximum of 4 units. Graded CR/NC.

Courses in Armenian (ARM)

Lower Division Courses

100ABC Elementary Armenian (4-4-4)

Prerequisite: See Departmental "Limitations on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of fundamental structure of the language through hearing, speaking, reading, and writing Armenian. Introduction to the customs, culture, and institutions of the Armenian-speaking people.

Courses in Chinese (CHIN)

Lower Division Courses

100ABC Elementary Mandarin (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Mandarin. Introduction to the customs, culture, and institutions of the Chinese people. **GE C4**

101ABC Elementary Cantonese (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Cantonese. Introduction to the customs, culture, and institutions of the regions where Cantonese is spoken. **GE C4**

200ABC Intermediate Mandarin (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Mandarin; grammar review; vocabulary building; study of the customs, culture, and institutions of the Chinese people. **GE C4**

201ABC Intermediate Cantonese (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Cantonese; grammar review; vocabulary building; study of the customs, culture, and institutions of the regions where Cantonese is spoken. **GE C4**

Upper Division Courses

300AB Advanced Chinese I, II (4, 4)

Prerequisite: CHIN 200C. Must be taken in sequence. Practice in oral and written Mandarin. Emphasis on fluency, correct expression in writing, and vocabulary expansion through reading contemporary literature.

303 Mandarin for Cantonese Speakers (4)

Prerequisite: CHIN 201C. Emphasis on spoken Mandarin; drills for better understanding differences between Cantonese and Mandarin syntactic and idiomatic expressions.

310 Chinese Civilization (4)

Prerequisite: CHIN 200B. Major cultural and social trends of China from beginning to present.

322 Newspaper Chinese (4)

Prerequisite: CHIN 300B. Extensive reading in leading Chinese newspapers and magazines from People's Republic of China, Republic of China (Taiwan), Hong Kong, etc. Emphasis on abbreviated phrases used in contemporary newspapers and magazines.

380 Business Chinese (4)

Prerequisite: CHIN 200C. Intensive study of Mandarin Chinese used in business; theory and practice of fundamentals of commercial correspondence and negotiations in Chinese.

408 Chinese Literature I (4)

Prerequisite: CHIN 300B. Chinese literature from the beginnings to the 13th century.

410 Chinese Literature II (4)

Prerequisite: CHIN 300B. Chinese literature from the 13th century to the present.

454L,P Special Topics in Chinese (1-4)

Current topics of special interest to students in Chinese as announced in Schedule of Classes. May be repeated for credit to maximum of 8 units.

Courses in French (FREN)

Lower Division Courses

100ABC Elementary French (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing French. Introduction to the customs, culture, and the institutions of the francophone people. **GE C4**

130 Intensive Elementary French (12)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Not appropriate for student having a background in spoken French. Methodical development of elementary communicative skills in French; introduction to the customs, culture, and institutions of the francophone people. Credit allowed for only one of FREN 130 and FREN 100ABC. **GE C4**

200AB Intermediate French (4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in French; grammar review; vocabulary building; study of the customs, culture, and institutions of the francophone people. **GE C4**

201 Conversation and Composition (4)

Prerequisite: FREN 200B. Practice in oral and written French expression of intermediate difficulty; development of fluency and accuracy.

Upper Division Courses

All Upper Division courses except 461 and 471 are conducted in French.

300AB Advanced Grammar and Reading (4, 4)

Prerequisites: FREN 200B. Must be taken in sequence. Complete review of all French grammatical structures; grammatical and stylistic analysis of difficult French texts; reading for comprehension, vocabulary building, and oral practice.

305 Phonetics (4)

Prerequisites: FREN 200AB, 201. Production of French sounds such as assimilation, liaison, vowel length, rhythm, accent, intonation, etc. Laboratory practice in pronunciation.

310AB French Culture and Institutions (4, 4)

Prerequisite: FREN 300B. Contributions of France to western world; origin and development of its political and social institutions, as well as evolution of its literature, thought, and art.

380 Commercial French (4)

Prerequisite: FREN 300B. Intensive study of French used in business; theory and practice of fundamentals of commercial correspondence in French; translation of business English into business French.

401 Cours de Style (4)

Prerequisite: FREN 300B. Writing and analysis of literary French.

403 Contrastive Analysis of French and English Structures (4)

Prerequisites: FREN 300B and ENGL 401. Contrastive analysis of structures of French and English describing similarities and differences of each; emphasis on studying structures that cause interference in language learning.

405 Translation (4)

Prerequisites: FREN 300B, 401. Techniques of translation processes in rendering into French and English materials ranging from official documents to technical essays and literary texts.

410 Introduction to French Prose and Dramatic Literature I (4)

Prerequisite: FREN 300B. Development of French prose and dramatic literature from beginnings to French Revolution: cultural influences, literary landmarks, and analysis of genre and style.

411 Introduction to French Prose and Dramatic Literature II (4)

Prerequisite: FREN 300B. Development of French prose and dramatic literature from the French Revolution to the 20th century: cultural influences, literary landmarks, and analysis of genre and style.

412 Masters of French Poetry: Beginnings to Symbolism (4)

Prerequisite: FREN 300B. French poetic evolution as seen in the principal poets from Villon to Mallarme.

413 Panorama de la Francophonie (4)

Prerequisite: FREN 300B. Survey of Francophone literature and culture, including French-language literature of Canada, Belgium, the Antilles, the Maghreb, and Central Africa.

450 Selected Topics in French Literary Prose (4)

Prerequisite: FREN 410 or 411. Selected masters of French literary prose and their influence on world letters and ideas. Focus on cultural significance and literary theory. May be repeated for credit as subject matter changes.

451 Selected Topics in French Dramatic Literature (4)

Prerequisite: FREN 410 or 411. Selected masters of French dramatic literature and their influence on world letters and ideas. Focus on cultural significance and aesthetic theory. May be repeated to a maximum of 8 units for credit as subject matter changes.

454 Special Topics in French (1-4)

Prerequisites: As needed for specific topic. Current topics of special interest in French as announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit.

461 Masters of French Literature in Translation (4)

Study of one or several French authors whose writings are of special significance today. Conducted in English. May be repeated to 8 units as subject matter changes.

471 The French Film (4)

Study of great traditions and personal styles of outstanding filmmakers. Critique and literary analysis of intellectual approach in French cinema. Conducted in English.

499 Undergraduate Directed Study (1-4)

Prerequisites: 3.0 grade point average in French, senior or graduate standing, adviser consent. Project selected in conference with instructor before registration; progress meetings held regularly and culminating in written reports. May be repeated to a maximum of 8 units for credit.

Courses in German (GERM)

Lower Division Courses

100ABC Elementary German (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing German. Introduction to the customs, culture, and institutions of the German people. **GE C4**

200ABC Intermediate German (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in German; grammar review; vocabulary building; study of the customs, culture, and institutions of the German people. **GE C4**

201 Spoken German (4)

Prerequisite: GERM 100C. Intensive practice in spoken German at intermediate level. Intended for non-natives only.

Courses in Italian (ITAL)

Lower Division Courses

100ABC Elementary Italian (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Italian. Introduction to the customs, culture, and institutions of the Italian people. **GE C4**

200ABC Intermediate Italian (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Italian; grammar review; vocabulary building; study of the customs, culture, and institutions of the Italian people. **GE C4**

Courses in Japanese (JAPN)

Lower Division Courses

100ABC Elementary Japanese (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Japanese. Introduction to the customs, culture, and institutions of the Japanese people. **GE C4**

130 Intensive Elementary Japanese (12)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Not appropriate for students having a background in spoken Japanese. Methodical development of elementary communicative skills in Japanese; introduction to the customs, culture, and institutions of the Japanese people. Credit allowed for only one of JAPN 130 and JAPN 100ABC. **GE C4**

200ABC Intermediate Japanese (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Japanese; grammar review; vocabulary building; study of the customs, culture, and institutions of the Japanese people. **GE C4**

230 Intensive Intermediate Japanese (12)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog; JAPN 130, 100C or equivalent. Methodical development of intermediate communicative skills in Japanese; introduction to the customs, culture, and institutions of the Japanese people. Credit allowed for only one of JAPN 230 and JAPN 200ABC. **GE C4**

Upper Division Courses

All Upper Division courses except 307 are conducted in Japanese.

300ABC Advanced Japanese (4, 4, 4)

Prerequisite: JAPN 200C. Advanced study of Japanese with emphasis on reading and writing. Continuation of aural-oral practice as an integral part of the course.

307 Japanese Literature in Translation (4)

Study of major works of Japanese literature organized around different themes. Subject matter may change with each offering. No knowledge of Japanese required. May be repeated to a maximum of 8 units for credit as content changes.

310 Japanese Civilization to 1600 (4)

Prerequisite: JAPN 200C. Origin and development of Japanese culture; religion, thought, literature, art, and patterns of life from Neolithic age to 1600 A.D.

311 Japanese Civilization Since 1600 (4)

Prerequisite: JAPN 200C. Significant aspects of Japanese culture from 1600 A.D. to present; their evolution, characteristics, and synthesis in modern period.

315 Language in Japanese Society (4)

Prerequisite: JAPN 200C. Study of how language functions in contemporary Japanese society. Politeness, gender, language attitudes, the mechanics of cross-cultural misunderstanding, how language incorporates Japanese social constructs.

320 Introduction to Japanese Linguistics (4)

Prerequisite: JAPN 200C. Overview of Japanese linguistics with comparisons to other languages. Includes Japanese phonetics, phonology, morphology, syntax, pragmatics, and typology.

380 Business Japanese (4)

Prerequisite: JAPN 200C. Intensive study of Japanese used in business; theory and practice of fundamentals of commercial correspondence and negotiations in Japanese.

395 Japanese in Community Service (1-4)

Prerequisites: JAPN 300C; approval by departmental faculty adviser in consultation with EPIC director, and acceptance by community agency. Participation in work of a community agency or campus program utilizing communication skills in Japanese. May be repeated to maximum of 6 units. Graded CR/NC.

400ABC Advanced Reading and Composition (4, 4, 4)

Prerequisite: JAPN 300C. Should be taken in sequence. Improvement of reading ability in modern Japanese; expository writing and use of advanced vocabulary and composition.

403 Contrastive Analysis of Japanese and English Structures (4)

Prerequisites: JAPN 300ABC and ENGL 401. Contrastive analysis of structures of Japanese and English describing similarities and differences of each; emphasis on studying structures that cause interference in language learning.

408 Classical Japanese Literature (4)

Prerequisites: JAPN 300C. Selected works of Japanese prose and poetry from earliest times to 1868. Introduction of classical grammar and vocabulary as needed.

410 Modern Japanese Literature (4)

Prerequisite: JAPN 300C. Selected works of Japanese prose and poetry from 1868 to the present. Literary trends of Meiji, Taisho, and Showa periods.

450 Proseminar: Japanese Linguistics (4)

Prerequisites: JAPN 300B, JAPN 320, ENGL 401. In-depth study of selected topics in Japanese linguistics. May be repeated to a maximum of 8 units as subject matter changes.

454L,P Special Topics in Japanese (1-4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in Japanese as announced in Schedule of Classes. May be repeated to maximum of 8 units.

460 Proseminar: Masters of Japanese Culture and Thought (4)

Prerequisite: JAPN 300C. Original works of a major figure in Japanese intellectual history. Individual subjects for study change with each offering. May be repeated to a maximum of 8 units as subject matter changes.

Courses in Korean (KOR)**Lower Division Courses****100ABC Elementary Korean (4, 4, 4)**

Prerequisites: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Korean. Introduction to the customs, culture, and institutions of the Korean people. **GE C4**

Courses in Latin (LATN)**Lower Division Courses****100ABC Elementary Latin (4, 4, 4)**

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through reading and translating Latin classics. Introduction to roman contributions to western culture. **GE C4**

222 Readings in Latin Prose (4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog; LATN 100C. Intensive reading in Latin prose works from Roman Republic through Renaissance; practical exercises in Latin grammar. Study of Roman contributions to Western culture. **GE C4**

Upper Division Courses**354 Special Topics in Latin (1-4)**

Prerequisite: As needed for specific topic. Topics of special interest to students of Latin as announced in Schedule of Classes. May be repeated to maximum of 8 units for credit.

450 Latin Readings in History (4)

Prerequisite: LATN 222. Directed student research in classical and medieval texts. Original Latin source material for study of history and related subjects.

Courses in Portuguese (PORT)**Lower Division Courses****100ABC Elementary Portuguese (4, 4, 4)**

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Portuguese. Introduction to the customs, culture, and institutions of the lusophone people. **GE C4**

Courses in Russian (RUSS)**Lower Division Courses****101AB Elementary Russian (4, 4)**

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Russian. Introduction to the customs, culture, and institutions of the Russophone people. **GE C4**

Courses in Spanish (SPAN)**Lower Division Courses****100ABC Elementary Spanish (4, 4, 4)**

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of the fundamental structure of the language through hearing, speaking, reading, and writing Spanish. Introduction to the customs, culture, and institutions of the hispanophone people. **GE C4**

105 Elementary Written Spanish (4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog; ability to speak Spanish; little or no knowledge of the written language. Emphasis on reading comprehension, vocabulary building, and writing; introduction to the customs, culture, and institutions of the Hispanophone world. Credit allowed for only one of SPAN 100A and SPAN 105. **GE C4**

110 Spanish Conversation for Professions (4)

Prerequisite: SPAN 100A. Course in Spanish conversation which focuses, according to student need, upon vocabulary used in medicine, law enforcement, or the social sciences. Basic grammar presented inductively. May be repeated for credit. May not be taken for credit by Spanish majors. Graded CR/NC.

115 Conversation (4)

Prerequisite: SPAN 100C. May be taken concurrently with 200AB. Emphasis on use of spoken Spanish. Individual reports, small group discussions, and panel presentations on topics of current interest based on listening, viewing, and reading assignments.

130 Intensive Elementary Spanish (12)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Not appropriate for students having a background in spoken Spanish. Methodical development of elementary communicative skills in Spanish; introduction to the customs, culture, and institutions of the Hispanophone people. Credit allowed for only one of SPAN 130 and SPAN 100ABC. **GE C4**

200ABC Intermediate Spanish (4, 4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical development of intermediate communicative skills in Spanish; grammar review; vocabulary building; study of the customs, culture, and institutions of the Hispanophone people. **GE C4**

205AB Intermediate Written Spanish (4, 4)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog; ability to speak Spanish, and basic knowledge of written Spanish or SPAN 105; must be taken in sequence. Emphasis on reading comprehension, vocabulary building, and writing; study of the customs, culture, and institutions of the Hispanophone world. Credit allowed for only one of SPAN 200AB and SPAN 205AB. **GE C4**

230 Intensive Intermediate Spanish (12)

Prerequisite: See departmental "Limitation on Language Credit" policy in this catalog; SPAN 130, 100C or equivalent. Methodical development of intermediate communicative skills in Spanish; study of the customs, culture, and institutions of the Hispanophone people. Credit allowed for only one of SPAN 230 and SPAN 200ABC **GE C4**

242 Hispanic Literature and Drama in Translation (4)

Study of significant Hispanic literary and dramatic texts in English translation. No knowledge of Spanish required. **GE C1**

Upper Division Courses

All Upper Division courses except Spanish 440 are conducted in Spanish.

300AB Composition and Grammar (4, 4)

Prerequisite: SPAN 200C or 205B. Must be taken in sequence. Intensive review of grammar; student compositions, emphasizing current writing practices in Spanish; letter-writing in Spanish; idiom review.

305 Introduction to Spanish Linguistics (4)

Prerequisite: SPAN 300A. Basic concepts of linguistics as applied to Spanish language; introduction to historical development of Spanish and regional dialects including Spanish spoken in the U.S.

310 Spanish Civilization (4)

Prerequisite: SPAN 200C or 205B. Synthesis of cultural characteristics of Spain.

315 Spanish-American Civilization (4)

Prerequisite: SPAN 200C or 205B. Synthesis of cultural characteristics of Spanish America.

320 Phonetics (4)

Prerequisite: SPAN 305. Production of Spanish sounds, analysis of intonation, rhythm, accentuation, vowel length, vowel linkage; laboratory practice in pronunciation.

350 Fundamentals of Translation (4)

Prerequisite: SPAN 300B. Intensive study of art of translation; practice in English-to-Spanish and Spanish-to-English translation.

351 Spanish for Interpreters (4)

Prerequisite: SPAN 300B. Intensive study and practice in the art of sight, consecutive, and simultaneous oral translation.

380 Commercial Spanish (4)

Prerequisite: SPAN 300B. Intensive study of Spanish used in business; theory and practice of fundamentals of commercial correspondence in Spanish.

395N Spanish in Community Service (1-4)

Prerequisites: SPAN 300B, approval of departmental faculty adviser in consultation with EPIC director, acceptance by community agency. Participation in work of a community agency or program utilizing communication skills in Spanish. May be repeated once to maximum of 6 units. Graded CR/NC.

397 Field Work in Spanish (1-4)

Prerequisite: To be established by coordinator in consultation with host organization. Field work and internships in occupations in which communication skills in Spanish can be used and perfected. Minimum of 4 hours per week per credit hour. May be repeated to maximum of 4 units. Graded CR/NC.

400A Spanish Morphology (4)

Prerequisite: SPAN 305 and SPAN 300B. Study of parts of speech with attention given to nominal and verbal inflections, pronominal paradigms, and morphological structure of derived and compound Spanish words.

400B Syntax (4)

Prerequisite: SPAN 400A. Comprehensive review of Spanish syntax; analysis of structure of simple and complex sentences.

401 Introduction to Literary Analysis (4)

Prerequisite: SPAN 300B. Introduction to major forms and aesthetic concepts of, and critical approaches to, Hispanic literature.

403 Grammatical Structures of Spanish and English (4)

Prerequisites: SPAN 400B, ENGL 401. Contrastive analysis of syntactic structures of Spanish and English; emphasis on structures that cause interference in language learning.

408 Spanish Literature I (4)

Prerequisite: SPAN 401. Introduction to Spanish literature from medieval period through the Golden Age.

410 Spanish Literature II (4)

Prerequisite: SPAN 401. Introduction to Spanish literature from 1700 to present.

411 Spanish-American Literature I (4)

Prerequisite: SPAN 401. Spanish-American literature from the Conquest to 1888.

413 Spanish-American Literature II (4)

Prerequisite: SPAN 401. Spanish-American literature from 1888 to present.

414 Don Quixote de la Mancha (4)

Prerequisite: SPAN 408. Reading and analysis of Don Quixote de la Mancha.

417 Spanish-American Short Story (4)

Prerequisite: SPAN 413. Spanish-American short story from the *Tradiciones* of Ricardo Palma to the present.

418 Golden Age Prose (4)

Prerequisite: SPAN 408. Reading and analysis of prominent prose writers of the Golden Age.

419 Colonial Spanish-American Literature (4)

Prerequisite: SPAN 411. Intensive study of colonial masterworks including prose, poetry, and theatre.

421 Mexican Literature of Twentieth Century (4)

Prerequisite: SPAN 413. Intensive study of significant works and movements of Mexican literature from 1900 to present.

424 Golden Age Drama of Spain (4)

Prerequisite: SPAN 408. Principal Spanish dramatists of the Golden Age; their thematic, poetic, social, and historical values and their influence on and contrast to subsequent literary history.

426 Nineteenth Century Spanish Novel (4)

Prerequisite: SPAN 410. Intensive study of novelists of 19th century Spain.

428 The Generation of 1898 (4)

Prerequisites: SPAN 410. Intensive study of poets, novelists, and essayists who promoted literary revival following 1898.

429 Nineteenth Century Spanish-American Literature (4)

Prerequisite: SPAN 411. Intensive study of 19th century masterworks including novel, poetry, and theatre.

435 Ruben Dario and Modernismo (4)

Prerequisite: SPAN 413. Analysis of representative works of modernist movement writers in Spanish America; their influences on literature of contemporary period. Lectures and reports in Spanish.

440 Hispanic Film (4)

Prerequisite: ENGL 250 or ML 400. Intensive study of Hispanic contributions to film: history and development of film in the Spanish speaking world; film theory and criticism; key films and figures; predominant themes; film adaptations of literary works. Course will be taught in English.

454L,P Special Topics in Spanish (1-4)

Prerequisites: As needed for specific topic. Current topics of special interest in Spanish as announced in Schedule of Classes. May be repeated for credit to maximum of 8 units.

459 Hispanic Play Production (3-4)

(Also listed as TA 459)

Prerequisite: Completion of intermediate Spanish. Introduction to major forms of Spanish drama; mechanics and production of a major work of Hispanic theatre. May be repeated to a total of 6-8 units of which a maximum of 4 may apply to major.

460 Proseminar: Masters of Hispanic Culture and Thought (4)

Prerequisites: Three Upper Division literature courses, including relevant introductory literature course. Outstanding Spanish and Spanish-American writers from Middle Ages to present; an individual author will be studied at each offering. May be repeated to a maximum of 8 units as subject matter changes.

461 Proseminar in Hispanic Linguistics (4)

Prerequisite: Spanish 400B. Changing topics in Hispanic linguistics, with emphasis on the broad relationship between language, culture, and society.

472 Twentieth Century Spanish Narrative (4)

Prerequisite: SPAN 410. An exploration of the development of prose fiction in Spain throughout the Twentieth Century. Novels and short stories by representative authors will be studied.

475 Proseminar: Spanish-American Theatre (4)

Prerequisite: SPAN 413. Intensive study of selected Spanish-American playwrights from 17th century to present.

483 Contemporary Spanish-American Novel (4)

Prerequisite: SPAN 413. Intensive study of the Spanish-American novel of the past thirty years.

485 Southern Cone Fiction (4)

Prerequisite: SPAN 413. Representative works of Chilean, Argentine and Uruguayan literature: drama, essay, poetry, and prose fiction.

499 Undergraduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated to a maximum of 8 units for credit.

Courses in Thai (THAI)

Lower Division Courses

100ABC Elementary Thai (4-4-4)

Prerequisite: See Departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of fundamental structure of the language through hearing, speaking, reading, and writing Thai. Introduction to the customs, culture, and institutions of the Thai-speaking people.

Courses in Vietnamese (VIET)

100ABC Elementary Vietnamese (4-4-4)

Prerequisite: See Departmental "Limitation on Language Credit" policy in this catalog. Must be taken in sequence. Methodical presentation of fundamental structure of the language through hearing, speaking, reading, and writing Vietnamese. Introduction to the customs, culture, and institutions of the Vietnamese-speaking people.

Graduate Level Courses

Classified graduate standing is required for admission to all 500 level courses.

Courses in French (FREN)

501 Development of French Language (4)

Prerequisites: FREN 305, 401; beginning Latin strongly recommended. Scientific analysis of written and spoken French from its inception through its current use in the French-speaking world.

507 Literary Theory (4)

Prerequisite: SPAN 401. Study of contemporary literary theories, Hispanic critical thought and text interpretation.

509 Analytical and Interpretive Writing in French (4)

Prerequisite: FREN 450 or 451. Original analysis and interpretation of literary or nonliterary texts as well as independent research resulting in a report; emphasis on scholarly writing skills.

510 Seminar: French Culture (4)

Prerequisites: FREN 310AB. In-depth study of specific cultural developments including historical events and social, intellectual, and artistic movements in Francophone societies; includes lectures and student research projects.

515 Seminar: Voltaire and Rousseau (4)

Prerequisite: FREN 410. Selected studies in sources, character, and influence of two of the most prominent figures of French Enlightenment.

535 Seminar: French Literary Prose since World War II (4)

Prerequisite: FREN 411. Studies in outstanding French prose writing and literary movements since World War II.

540 Seminar: French Post-Symbolist Poetry (4)

Prerequisite: FREN 412. Recent French poetic movements such as *fantaisisme*, cubism, surrealism; metaphysical and religious poets; traditional poets, revolutionaries, and poets of other French-speaking countries.

575 Seminar: French Literature (4)

Prerequisite: Undergraduate course(s) relevant to topic being studied. Intensive study of significant works of particular period, genre, or literary tendency from Middle Ages to present. May be repeated, as subject matter changes, to maximum of 12 units.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units for credit.

Courses in Spanish (SPAN)

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: SPAN 400AB, 401, 408, 410, 411, 413, 440, 442, 454, 459

500 Academic Writing in Spanish (4)

Prerequisite: Spanish 401. Theory and practice of advanced scholarly writing in Spanish. Introduction to discourse analysis and the theory of argumentation; contrastive rhetoric and elements of style; research of electronic databases; and academic style sheets.

501 Development of Spanish Language (4)

Prerequisite: SPAN 320. Scientific analysis of written and spoken Spanish from its inception through its current use in the Hispanic world.

504 Studies in Medieval Literature (4)

Prerequisites: SPAN 408, 410. Principal Spanish literary works dating from twelfth to sixteenth century; their significance in historical development of various genres; their influence on subsequent literary history.

506 Semantics and Pragmatics (4)

Prerequisite: SPAN 400B. Analysis of meaning in sentences in Spanish and of main features of Spanish lexicon; selected problems of discourse pragmatics; functional meaning of the sentence in context.

510 Sociolinguistic Patterns in Spanish (4)

Prerequisite: SPAN 305. Principles of sociolinguistics and dialectology; sociolinguistic patterns in Hispanic languages; social and geographic language varieties including main features of Spanish in U.S.

540 Seminar: Contemporary Spanish Poetry (4)

Prerequisites: SPAN 408, 410. Intensive study of Spanish poetry of past thirty years.

545 Seminar: Contemporary Spanish-American Poetry (4)

Prerequisites: SPAN 411, 413. Intensive study of Spanish-American poetry of past thirty years.

575 Seminar: Hispanic Literature (4)

Prerequisites: SPAN 408 and 410 or 411 and 413. Intensive study of significant works of selected period in Spanish or Spanish-American literature. May be repeated to a maximum of 8 units as subject matter changes.

583 Seminar: Contemporary Hispanic Prose (4)

Prerequisites: SPAN 408 plus 410 or 411 plus 413. Recent Hispanic prose (novel, short story, essay); focus on Spanish or Spanish-American authors in alternate years. May be repeated to a maximum of 8 units for credit as subject matter changes.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units for credit.

Department of**Music****School of Arts and Letters**

DEPARTMENT OFFICE

Music 145

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The Department of Music offers programs leading to the Bachelor of Music, Bachelor of Arts, Master of Music, and Master of Arts degrees. Many opportunities are provided for creative performance activities, both for majors and for students pursuing personal development in music along with career preparation in other fields.

The Faculty

Professors: William Belan, David A. Buck, H. David Caffey (Chair), Lu Elrod, Ellen King Kravitz, JoAn D. Kunselman, Thomas Miyake, John J. Swain, Paul W. Van Ness.

Associate Professors: Jeffrey W. Benedict, David N. Connors, Irene M. Girton.

Assistant Professors: René Aravena, Paul De Castro, Deborah Holland, John M. Kennedy.

Emeriti: Francis H. Baxter, Pollyanne Baxter, Millie Burnett, Robert M. Fowells, Louis A. Hansen, William H. Hill, Byong-Kon Kim, Vernon F. Leidig, Richard McComb, Inez R. Schubert, Keith D. Snyder, Milton Stern, Robert Strassburg, Vito G. Susca, Olga Termini, Maurine Timmerman, Patti W. Schliett Wiggins.

Undergraduate Programs

The undergraduate programs in Music are designed to provide students with a broad, general foundation in the theoretical branches of music, competence in artistic performance, and professional preparation for successful graduate study. The Bachelor of Music degree stresses composition, jazz studies, vocal performance, instrumental performance, or keyboard performance. The Bachelor of Arts degree serves students whose primary interest is music history, theory, and literature and those who wish to teach music or to achieve a liberal arts education with an emphasis in music.

Students who wish to major in music are required to audition in their performance area (voice, piano, or other principal instruments), upon entrance, to develop their performance ability, and to appear in at least one student solo or ensemble recital each year. All music majors must demonstrate progress in their major performing area before a faculty jury at the end of each quarter. Those who are not making satisfactory progress are asked to take additional work. Students must present a satisfactory senior recital before being approved for graduation.

The Music Department Handbook contains other policies and regulations, including a concert attendance policy, that pertain to all music majors and minors. It is each student's responsibility to obtain a copy of the handbook and to become familiar with its contents. Failure to comply with policies and regulations outlined in the handbook may affect continued enrollment in the program and/or eligibility for graduation.

Participation in performance organizations is required during the quarters in which students are registered for applied music credit. After large ensemble performance requirements are met, that is, choir, chorus, symphony orchestra, symphonic band, or jazz ensemble, students will, while receiving applied music credit, select electives from the following MUS courses: 320, 321, 326, 327, 420, 421, 422, 424, 425, 426, 428, 429, 447, 485.

The nature of these groups makes it essential that they maintain a constant personnel.

Students who demonstrate competence in performance and theory above the minimum requirement may earn advanced standing. Lower division students may register for and earn credit in upper division performance courses

Bachelor of Music Degree

The Bachelor of Music degree curriculum is designed to provide professional training for musicians seeking preparation for careers in performance, composition or jazz studies. Students desiring entrance into this degree program should note the specific entrance program procedures for each option listed below. After acceptance, students are assigned to faculty advisers for guidance in planning course work.

In the core program in music, lower division courses emphasize music theory, literature and applied studies, while upper division courses explore advanced concepts in theory, music history, performance and related fields. All options include the required performance of a junior and senior recital and required participation in performing ensembles concurrent with applied music instruction.

Each option within this degree has been carefully designed to provide an education that encompasses the artistic and functional needs of the aspiring musician. Within the framework of each of these options lies the opportunity for individual needs to be addressed.

Program Entrance Requirements***Option I - Composition***

All students desiring entrance into the Composition option must present a portfolio of compositions for the consideration of the theory/composition area faculty. This must occur prior to enrolling in upper division music courses. Prospective students should note applied music requirements necessary

for the completion of the degree program found in the core program. All applied study requires audition by the appropriate area committee.

Option II - Jazz Studies

All students seeking entrance into the Jazz Studies option must first gain acceptance into the program through audition by the jazz studies area and into the applied music course related to their instrument of study. Note: This option requires auditions by both the jazz studies area and the applied music area for your instrument of study.

Option III - Vocal Performance

Option IV - Instrumental Performance

Option V - Keyboard Performance

All students desiring entrance into the Performance options must be accepted by audition before the appropriate area faculty. This normally occurs prior to commencing music studies at the University, but may occur at any time prior to enrollment in upper division music courses.

Requirements for the Major (106-108 units)

Depending upon the option selected, a total of 189 units are required for the degree, of which 106 -108 are in the major: 55 units in the required core program and 51-53 units in one of the five options. See the **Undergraduate Study: General Information** chapter for details about the General Education and other requirements that constitute the units outside the major.

Core Program (55 units)

All students complete a required core program of 55 units in Music.

Required Courses (55 units)

MUS 161ABC	Music Theory I-III (3, 3, 3)
MUS 162ABC	Musicianship I-III (1, 1, 1)
MUS 170AB	Music Literature (2, 2)
MUS 243ABC	Class Piano Instruction (1, 1, 1)
MUS 261ABC	Music Theory IV-VI (3, 3, 3)
MUS 262ABC	Musicianship IV-VI (1,1, 1)
MUS 300	Career Planning and Writing in Music (3)
MUS 370-371-372	History of Music in Western Civilization I-III (4, 4, 4)
MUS 380	Beginning Conducting (3)

Applied Music

Select one area of specialization (6 units)

MUS 115, 215	Strings (1-1- 1- 1- 1- 1)
MUS 116, 216	Woodwinds (1- 1- 1- 1- 1- 1)
MUS 117, 217	Brass (1- 1- 1- 1- 1- 1)
MUS 118, 218	Percussion (1-1-1- 1- 1- 1)
MUS 135, 235	Voice (1- 1-1-1-1- 1)
MUS 145, 245	Piano/Harpsichord (1- 1- 1- 1- 1-1)
MUS 146, 246	Organ (1- 1-1- 1- 1-1)

All entering students must take a functional piano skills placement examination and pass it, or complete MUS 343C (Class Piano Instruction), before being approved for graduation. Those who are deficient in this area should take appropriate additional course work as recommended by their adviser.

Options

Option I: Composition (53 units)

A total of 53 units is required in this option, which prepares students in the field of composition.

Required Courses (40 units)

MUS 362	Orchestration and Arranging (4)
MUS 432	Notation and Calligraphy (2)
MUS 460	Composition (3, 3, 3)
MUS 462	Advanced Orchestration and Arranging (3)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 465	Contemporary Techniques (4)
MUS 467	Music Composition for Television and Film (3)
MUS 469	Techniques of Electronic Music (3)
MUS 488	Advanced Computer Music (3, 3)

Ensemble Performance (3 units)

Select from the following:

MUS 320	Symphonic Band (1)
MUS 321	Symphony Orchestra (1)
MUS 327	Chorus (1)
MUS 425	Chamber Singers (1)

Secondary Instruments (4 units)

Select from the following:

MUS 312A-H	(2, 2)
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Electives (6 units)

Select from the following with adviser approval:

MUS 368 ABC	Jazz Improvisation (2, 2, 2)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 466AB	Jazz Arranging (3, 3)
MUS 467	Music Composition for Television and Films (3)
MUS 469	Techniques of Electronic Music (3)
MUS 470	History and Literature of Opera (4)
MUS 471	History and Literature of Large Vocal Forms (4)
MUS 472	History and Literature of Vocal Solo Music (4)
MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)
MUS 475	History and Literature of Keyboard Music (4)
MUS 480	Choral Conducting (3)
MUS 481	Instrumental Conducting (3)
MUS 483	Analysis of Jazz Styles and Literature (4)
MUS 497	Research Techniques in Music (2)

Any additional applied music course with adviser approval.

Option II: Jazz Studies (53 units)

A total of 53 units is required in this option, which prepares students in jazz performance production, composition, recording, and conducting. Students must successfully complete a Junior Recital and a Senior Project/Recital.

Students choose between two tracks in this option: Performance and Arranging/Composition.

Required Courses for Both Tracks (38 units)

MUS 328	Vocal Jazz Ensemble (1-1-1) or
MUS 424	Jazz Ensemble (1, 1, 1)
MUS 366	Elements of Jazz Harmony (3)
MUS 368AB	Jazz Improvisation (2, 2)
MUS 452	History of Jazz (4)
MUS 466A	Jazz Arranging (3)
MUS 467	Music Composition for Television and Films (3)
MUS 468	Jazz Pedagogy (3)
MUS 483	Analysis of Jazz Styles and Literature (3)

Performance Specialty (12 units)

Select one area of a performance specialty

MUS 315-415	Strings (2, 2, 2, 2, 2)
MUS 316-416	Woodwinds (2, 2, 2, 2, 2)
MUS 317-417	Brass (2, 2, 2, 2, 2)
MUS 318-418	Percussion (2, 2, 2, 2, 2)
MUS 335-435	Voice (2, 2, 2, 2, 2)
MUS 345-445	Piano (2, 2, 2, 2, 2)

Track I: Performance (15 units)**Required Courses (12 units)**

MUS 429	Small Jazz Ensemble (1, 1, 1, 1, 1)
MUS 466B	Advanced Jazz Arranging (3)
MUS 481	Instrumental Conducting (3)

Electives (3 units)

Select from upper division music courses with adviser approval.

Track II: Arranging/Composition (15 units)**Required Courses (15 units)**

MUS 362	Orchestration and Arranging (4)
MUS 429	Small Jazz Ensembles (1, 1)
MUS 466B	Advanced Jazz Arranging (3, 3)
MUS 481	Instrumental Conducting (3)

Option III: Vocal Performance (51-53 units)

A total of 51-53 units is required in this option which prepares students to perform art songs in the style and manner of the period in which they were written, to demonstrate awareness of poetic song content by translation from at least three foreign languages, and to prepare repertoire and recital programs. Prior to graduation, students prepare and successfully perform a 50-minute recital of songs from at least three of the following historical periods: Renaissance, Baroque, Classic, Romantic, Contemporary.

Required Core Courses (29 units)

MUS 330	Principles of Applied Vocal Development (3)
MUS 406	Comparative Vocal Techniques (3)
MUS 411V	Performance Pedagogy (2, 2, 2)
*MUS 426	Opera Repertory, Performance and Production (1, 1, 1)

*MUS 436 Diction for Singers (2, 2, 2)

*MUS 426 and 436 are repeatable with limitations; see course descriptions.

Foreign Languages (8 units)

Foreign languages are required (as part of the basic 29 units) in this program as follows:

Three languages are required. Any one language must be taken in the General Education program.

FREN 100A	Elementary French (4)
GERM 100A	Elementary German (4)
ITAL 100A	Elementary Italian (4)

Applied Music (12 units)

*MUS 335 Voice (2, 2, 2)

*MUS 445 Piano (2, 2, 2)

*See course descriptions for limitations on repeatability.

Performance Organizations (3 units)

Select from the following:

*MUS 326	Concert Choir (1)
*MUS 327	University Chorus (1)
*MUS 328	Vocal Jazz Ensemble (1)
*MUS 425	Chamber Singers (1)

*See course descriptions for limitations on repeatability.

Theory/Jazz Studies (3-5 units)

Select from the following courses.

MUS 362	Orchestration and Arranging (4)
MUS 368A	Jazz Improvisation (2)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 466A	Jazz Arranging: Beginning (3)

Musicology (4 units)

Select one

MUS 470	History and Literature of Opera (4)
MUS 472	History and Literature of Vocal Solo Music (4)

Option IV: Instrumental Performance (53 units)

A total of 53 units is required in this option, which prepares students for performance in small ensembles and in band or orchestra. Students study the preparation of repertoire and recital programs. Prior to graduation, students prepare and successfully perform a 50-minute recital of solo works from the Baroque, Classic, Romantic, and Contemporary periods.

Conducting and Musicology (11 units)

Select two of the following three courses (8 units)

MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)
MUS 477	History and Literature of Wind Band in U.S. (4)

Required (3 units)

MUS 481	Instrumental Conducting (3)
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Performance Area (42 units)

Select courses from each area below, appropriate to instrument of specialization, for the numbered units specified in each area and for a total of 42 units. These courses are repeatable within limits specified in course descriptions.

Instrumental Courses (13)

MUS 312A-H	Orchestral Instruments (2-2-2)
MUS 313	Instrumental Pedagogy (3)
MUS 411BPSW	Performance Pedagogy (2-2)

Performing Organizations (6 units)

MUS 320	Symphonic Band (1, 1, 1, 1, 1)
MUS 321	Symphony Orchestra (1, 1, 1, 1, 1)

Ensemble Courses (11 units)

MUS 420	String Ensemble (1)
MUS 421AB	Woodwind Ensemble (1, 1)
MUS 422	Brass Ensemble (1)
MUS 423	Percussion Ensemble (1)
MUS 424	Jazz Ensemble (1)
MUS 485	Chamber Music (1)

Applied Music (12 units)

Select area of specialization:

MUS 315, 415	Strings (2, 2, 2)
MUS 316, 416	Woodwinds (2, 2, 2)
MUS 317, 417	Brass (2, 2, 2)
MUS 318, 418	Percussion (2, 2, 2)

Option V: Keyboard Performance (53 units)

A total of 53 units is required in this option which emphasizes high standards in performance of solo and ensemble literature. Performance requirements include two solo recitals plus a concerto or other ensemble performance.

Students in this option complete a core of 34 units of required courses and choose between two tracks: Piano/Harpsichord Performance and Organ Performance, earning an additional 19 units.

Required Courses for Both Tracks (34 units)

MUS 147	Keyboard Harmony and Sight Reading Ensemble (1, 1)
MUS 244AB	Introduction to Organ and Harpsichord (1, 1)
MUS 247	Keyboard Sight Reading Ensemble (1, 1)
MUS 405AB	Piano Pedagogy (3, 3)
MUS 411K	Performance Pedagogy (2, 2)
MUS 447	Accompanying (2, 2)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 465	Contemporary Techniques (4)
MUS 475	History and Literature of Keyboard Music (4)

Track I: Piano/Harpsichord Performance (19 units)**Required Courses (15 units)**

MUS 345	Piano/Harpsichord (2, 2, 2)
MUS 445	Piano/Harpsichord (2, 2, 2)
MUS 485	Chamber Music (1, 1, 1)

Electives (4 units)

Select from upper division music courses, with adviser approval.

Track II: Organ (19 units)**Required Courses (15 units)**

MUS 346	Organ (2, 2, 2)
MUS 446	Organ (2, 2, 2)
MUS 480	Choral Conducting (3)

Electives (4 units)

Select from upper division music courses with adviser approval.

Bachelor of Arts Degree

The Bachelor of Arts degree is available in three options: General, Music History, and Teaching. The General option is intended for those students seeking a broad education in music. The Music History option is for those interested primarily in developmental studies in music. The Teaching option is offered for those who wish to pursue the Single Subject Credential in music. The curriculum in all options stresses theory, history and literature and performance of music.

Requirements for the Major (94–101 units)

A total of 186 units is required for the degree. A common core of 70 units is required of all students. Students elect an option to complete requirements for the major. A senior recital is required of all majors.

See the *Undergraduate Study: General Information* chapter for details about the General Education and other requirements which constitute the units outside the major.

Required Core for the Major (70 units)

All students must complete a common core of lower and upper division courses in theory, history and literature and performance of music.

Lower Division (31 units)

MUS 161ABC	Music Theory I-III (3, 3, 3)
MUS 162ABC	Musicianship I-III (1, 1, 1)
MUS 170AB	Music Literature (2, 2)
MUS 243ABC	Class Piano Instruction (1, 1, 1)
MUS 261ABC	Music Theory IV–VI (3, 3, 3)
MUS 262ABC	Musicianship IV-VI (1,1, 1)

Upper Division (33 units)

MUS 300	Career Planning and Writing in Music (3)
MUS 312A-H	Orchestral Instruments (2, 2, 2)
MUS 330	Principles of Applied Vocal Development (3)
MUS 370, 371, 372	History of Music in Western Civilization (4, 4, 4)
MUS 380	Beginning Conducting (3)

Select 6 units from the following repeatable ensemble courses. Students in the Instrumental track of the Teaching Option are required to take MUS 320 or 321. Students in the Choral track of the Teaching Option are required to take MUS 326 or 327.

MUS 320	Symphonic Band (1)
MUS 321	Symphony Orchestra (1)
MUS 326	Concert Choir (1)
MUS 327	Chorus (1)

Applied Music (6 units)

Select from the following (6 units):

The units in applied music are lower or upper division depending upon audition results. It is expected that students will reach the 400 level of study prior to the senior recital.

MUS 115, 215, 315, 415	Strings (1, 1, 1, 1, 1, 1)
MUS 116, 216, 316, 416	Woodwinds (1, 1, 1, 1, 1, 1)
MUS 117, 217, 317, 417	Brass (1, 1, 1, 1, 1, 1)
MUS 118, 218, 318, 418	Percussion (1, 1, 1, 1, 1, 1)
MUS 135, 235, 335, 435	Voice (1, 1, 1, 1, 1, 1)
MUS 145, 245, 345, 445	Piano (1, 1, 1, 1, 1, 1)
MUS 146, 246, 346, 446	Organ (1, 1, 1, 1, 1, 1)

Piano Proficiency Requirement

All entering students must take a functional piano skills placement examination and pass it, or complete MUS 343C (Class Piano Instruction), before being approved for graduation. Students who are deficient in this area should take appropriate additional course work as recommended by their adviser.

Options

Students select one of the following options to complete their major. Prerequisites are normally upper division standing and completion of the lower division required core.

General Option (25 units)**Select five courses from the following (15-18 units):**

MUS 362	Orchestration and Arranging (4)
MUS 460	Composition (3)
MUS 461	Choral Arranging (3)
MUS 462	Advanced Orchestration and Arranging (3)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 465	Contemporary Techniques (4)
MUS 466A	Jazz Arranging: Beginning (3)
MUS 466B	Jazz Arranging: Advanced (3)
MUS 488	Advanced Computer Music (3)

Electives (7-10 units)

Select music courses with adviser approval.

Music History Option (24 units)**Required courses in Music History (14-18 units)**

MUS 497	Research Techniques (2)
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Select from the following (12-16 units):

MUS 454L	Special Topics in Music History (4)
MUS 470	History and Literature of Opera (4)
MUS 471	History and Literature of Large Vocal Forms (4)
MUS 472	History and Literature of Vocal Solo Music (4)

Required courses in Music History (cont'd)

MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)
MUS 475	History and Literature of Keyboard Music (4)
MUS 477	History and Literature of Wind Band in U.S. (4)

Required Courses in Music Theory (6-10 units)

Select from the following:

MUS 362	Orchestration and Arranging (4)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 465	Contemporary Techniques (4)

It is recommended that students in the Music History option take two different languages (French, German or Italian). Four units may be taken to fulfill general education requirements.

Teaching Option (31 units)**Track I - Choral Teaching**

The choral teaching track is designed for students with an aptitude in voice or keyboard who wish to become choral conductors.

Required Courses (26 units)

MUS 191	Introduction to Music in Schools (2)
MUS 326	Concert Choir (1, 1) or
MUS 327	Chorus (1, 1)
MUS 362	Orchestration and Arranging (4)
MUS 406	Comparative Vocal Techniques (3)
MUS 480	Choral Conducting (3)
MUS 481	Instrumental Conducting (3)
MUS 489	Instructional Technology for The Music Educator (3)

Select from the following (6 units):

MUS 403	Training Select Children's Choirs (3)
MUS 405AB	Piano Pedagogy (3, 3)
MUS 461	Choral Arranging (3)

Electives (5 units)

Select music courses with adviser approval.

Track II - Instrumental Teaching

The instrumental teaching track is designed for students with an aptitude in orchestral or band instruments who wish to become instrumental conductors.

Required Courses (31 units)

MUS 191	Introduction to Music in schools (2)
MUS 320	Symphonic Band (1, 1) or
MUS 321	Symphony Orchestra (1, 1)
MUS 362	Orchestration and Arranging (4)
MUS 407	Instrumental Techniques I (3)
MUS 468	Jazz Pedagogy (3)
MUS 480	Choral Conducting (3)
MUS 481	Instrumental Conducting (3)
MUS 489	Instructional Technology for the Music Educator (3)

Select 8 units from the following:

MUS 312A-H	Orchestral Instruments (2, 2, 2, 2)
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Students in the Instrumental Teaching Option must have all courses in the 312 series with the exception of the course for their major instrument.

Additional Requirements for Single Subject Credential (10 units)

In addition to the Bachelor of Arts degree program, the following courses are required for the credential, are prerequisite to directed teaching in music, and may be taken either for elective credit, for the degree outside the major, or in postbaccalaureate standing. Refer to the **Charter School of**

Education section in the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

Required Courses (10 units)

MUS 401	Elementary General Music Techniques (3)
MUS 402	World Musics (3)
MUS 408	Choral Techniques (3)
MUS 409	Instrumental Techniques II (3)
MUS 496	Demonstration of Competencies in Music Education (1)

Minor in Music

A minor in music is available for students majoring in other fields. A minimum of 42 units is required.

Requirements for the Minor (minimum 42 units)**Lower Division Required Courses (15 units):**

MUS 161ABC	Music Theory (3,3,3)
MUS 162ABC	Musicianship (1,1,1)
MUS 243ABC*	Class Piano Instruction (1,1,1)

**may be waived for keyboard minors.*

Upper Division Required Course (14 units)

MUS380	Beginning Conducting (3)
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Select 3 units from following:

MUS 320	Symphonic Band (1)
MUS 321	Symphonic Orchestra (1)
MUS 326	Concert Choir (1)
MUS 327	Chorus (1)
MUS 424	Jazz Ensemble (1)

Select 8 units from following:

MUS 370	History of Music in Western Civilization (4)
MUS 371	History of Music in Western Civilization (4)
MUS 372	History of Music in Western Civilization (4)

Applied Music (3-6 units)

MUS115-415	Strings (1-1-1)
MUS116-416	Woodwinds (1-1-1)
MUS117-417	Brass (1-1-1)
MUS118-418	Percussion (1-1-1)
MUS135-435	Voice (1-1-1)
MUS145-445	Piano (1-1-1)
MUS146-446	Organ (1-1-1)

Orchestral Instruments (2 units)

Select one from MUS 312A-H

Electives (8 units)

Select units in music with adviser approval

The Credential Program

The Bachelor of Arts degree program in Music, including the additional requirements for the Single Subject credential, is the subject matter program designed to qualify students for the Single Subject credential in Music. Students should consult advisers in the department and the Charter School of Education.

Graduate and Postbaccalaureate Programs

Master of Arts Degree

The Master of Arts degree in Music is offered with three options. The first is designed for students desiring a general degree with breadth in all areas of music. The second focuses upon Music Education and the third is for students seeking a concentration in Musicology. Adjustments in the general option to meet specific interests and abilities may be made in consultation with graduate advisers.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in music from an accredited college or university. All applicants must take a graduate placement examination in music. In addition, students must seek advisement and have a program filed in the Music Department before being admitted to classified standing.

Requirements for the Degree (45 units)

A total of 45 units is required, including at least 23 in 500-level music courses: a required core of 6 units and 39 units in an option. Students may choose between three options: *Option I, General; Option II, Music Education; or Option III, Musicology.* Placement in applied music is by audition. Students in all options must take a comprehensive examination. The program concludes with a thesis or project. The Musicology option requires the thesis and a foreign language reading examination.

Required Core (6 units)

MUS 497	Research Techniques (2)
MUS 596	Comprehensive Exam (0)
MUS 599	Thesis or Project (4)

Option I: General (39 units)

Required courses (12 units) to be taken in sequence

MUS 530AB	Analysis of Musical Style (4, 4)
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Seminar

Select 4 units from the following:

MUS 502	Seminar: Music Education (4)
MUS 507	Seminar: Vocal Techniques (4)
MUS 508	Seminar: Choral Music (4)
MUS 509	Seminar: Instrumental Music Education (4)
MUS 568	Seminar: Performance (4)
MUS 569	Seminar: Composition (4)
MUS 579	Seminar: Musicology (4)

Applied Music or Performance (3 units)

Select 3 units from the following:

Applied

MUS 415	Strings (1 or 2)
MUS 416	Woodwinds (1 or 2)
MUS 417	Brass (1 or 2)
MUS 418	Percussion (1 or 2)
MUS 435	Voice (1 or 2)
MUS 445	Piano (1 or 2)
MUS 446	Organ (1 or 2)
MUS 447	Accompanying (2)
MUS 519	Applied Music, Orchestral Instruments (1-2)
MUS 539	Applied Music, Voice (1-2)
MUS 549	Applied Music, Keyboard Instruments (1-2)

Performance

MUS 420	String Ensemble (1)
MUS 421AB	Woodwind Ensemble (1, 1)
MUS 422	Brass Ensemble (1)
MUS 423	Percussion Ensemble (1)
MUS 424	Jazz Ensemble (1)
MUS 425	Chamber Singers (1)
MUS 426	Opera Repertory, Performance and Production (1)
MUS 428	New Music Ensemble (1)
MUS 510	Large Ensemble (1)
MUS 511	Large Ensemble (1)

History (12 units)

Select 12 units from the following:

MUS 454L	Special Topics in Music (4)
MUS 470	History and Literature of Opera (4)
MUS 471	History and Literature of Large Vocal Forms (4)
MUS 472	History and Literature of Vocal Solo Music (4)
MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)
MUS 475	History and Literature of Keyboard Music (4)
MUS 477	History and Literature of Wind Band in U.S. (4)
MUS 570	Music of the Medieval Period (4)
MUS 571	Music of the Renaissance Period (4)
MUS 572	Music of the Baroque Period (4)
MUS 573	Music of the Classic Period (4)
MUS 574	Music of the Romantic Period (4)
MUS 575	20 th Century Music to 1945 (4)
MUS 576	20 th Century Music since 1945 (4)

Electives (12 units)

Select 400- or 500-level courses with adviser approval

Option II: Music Education (39 units)

Prerequisite

MUS 489	Instructional Technology for Musicians (3)
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Required Courses (16 units)

MUS 501	Psychology of Music (4)
MUS 502	Seminar: Music Education (4)
MUS 503	Music in World Cultures for the Music Educator (4)
MUS 530B	Advanced Style Analysis (4)

History and Literature Requirement (4 units)

Select from the following:

MUS 470	History and Literature of Opera (4)
MUS 471	History and Literature of Large Vocal Forms (4)
MUS 472	History and Literature of Vocal Solo Music (4)
MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)
MUS 475	History and Literature of Keyboard Music (4)
MUS 477	History and Literature of Wind Band in U.S. (4)
MUS 570	Music of the Medieval Period (4)
MUS 571	Music of the Renaissance Period (4)
MUS 572	Music of the Baroque Period (4)
MUS 573	Music of the Classic Period (4)
MUS 574	Music of the Romantic Period (4)
MUS 575	20 th Century Music to 1945 (4)
MUS 576	20 th Century Music Since 1945 (4)

Track I :Vocal/General Music**Certification Program (12 units)**

Select from the following:

Orff-Schulwerk Certification

- MUS 495 Orff-Schulwerk Certification Level I (4)
 MUS 587 Orff-Schulwerk Certification Level II (4)
 MUS 589 Orff-Schulwerk Certification Level III (4)

or

Kodaly Certification

- MUS 494 Kodaly Methodology Level I (4)
 MUS 586 Kodaly Methodology Level II (4)
 MUS 588 Kodaly Methodology Level III (4)

Electives (7 units)

Any 400- or 500-level course may be selected with the adviser's approval.

Track II: Vocal/Choral Music**Required Courses (8 units)**

- MUS 507 Seminar: Vocal Techniques (4) **or**
 MUS 508 Seminar: Choral Music (4) **and**
 MUS 580 Advanced Choral Conducting (4)

Electives (11 units)

Any 400- or 500-level course may be selected with the adviser's approval.

Track III: Instrumental Music**Required Courses (8 units)**

- MUS 509 Seminar: Instrumental Music Education (4)
 MUS 581 Advanced Instrumental Conducting (4)

Electives (11 units)

Any 400- or 500-level course may be selected with the adviser's approval.

Option III: Musicology (39 units)**Foreign Language Requirement**

The Music Department Foreign Language Reading Examination in French, German, or Italian must be successfully completed prior to advancement to candidacy.

Required Courses (12 units)

To be taken in sequence:

- MUS 530AB Advanced Style Analysis (4, 4)
 MUS 579 Seminar in Musicology (4)

Applied Music or Performances (3 units)

Select 3 units from the following:

Applied

- MUS 415 Strings (1 or 2)
 MUS 416 Woodwinds (1 or 2)
 MUS 417 Brass (1 or 2)
 MUS 418 Percussion (1 or 2)
 MUS 435 Voice (1 or 2)
 MUS 445 Piano (1 or 2)
 MUS 519 Applied Music, Orchestral Instruments (1-2)
 MUS 539 Applied Music, Voice (1-2)
 MUS 549 Applied Music, Keyboard Instruments (1-2)

Performance

- MUS 420 String Ensemble (1)
 MUS 421AB Woodwind Ensemble (1, 1)
 MUS 422 Brass Ensemble (1)
 MUS 423 Percussion Ensemble (1)
 MUS 424 Jazz Ensemble (1)
 MUS 425 Chamber Singers (1)
 MUS 426 Opera Repertory, Performance, and Production (1)
 MUS 428 New Music Ensemble (1)

Performance (cont'd)

- MUS 447 Accompanying (2)
 MUS 510 Graduate Choral Ensemble (1)
 MUS 511 Graduate Instrumental Ensemble (1)

History (20 units)

Select 20 units from the following:

- MUS 570 Music of Medieval Period (4)
 MUS 571 Music of Renaissance Period (4)
 MUS 572 Music of the Baroque Period (4)
 MUS 573 Music of Classic Period (4)
 MUS 574 Music of Romantic Period (4)
 MUS 575 20th Century Music to 1945 (4)
 MUS 576 20th Century Music since 1945 (4)

Electives (4 units)

Music courses in history, theory, independent directed study or related fields outside music with adviser approval.

Recommended Courses

- MUS 454L Special Topics in Music (1-4)
 MUS 460 Composition (3)
 MUS 463 Counterpoint (3)
 MUS 464 Musical Form (3)
 MUS 470 History and Literature of Opera (4)
 MUS 471 History and Literature of Large Vocal Forms (4)
 MUS 472 History and Literature of Vocal Solo Music (4)
 MUS 473 History and Literature of Symphonic Music (4)
 MUS 474 History and Literature of Chamber Music (4)
 MUS 475 History and Literature of Keyboard Music (4)
 MUS 477 History and Literature of Wind Band in U.S. (4)
 MUS 483 Analysis of Jazz Styles and Literature (3)
 MUS 508 Seminar: Choral Music (4)
 MUS 560 Advanced Composition (4)
 MUS 580 Advanced Choral Conducting (4)
 MUS 581 Advanced Instrumental Conducting (4)
 MUS 598 Graduate Directed Study (1-4)
- Or the following, if not included in history:**
- MUS 570 Music of the Medieval Period (4)
 MUS 571 Music of Renaissance Period (4)
 MUS 572 Music of Baroque Period (4)
 MUS 573 Music of Classic Period (4)
 MUS 574 Music of Romantic Period (4)
 MUS 575 Music of Contemporary Period (4)
 MUS 576 Music since 1945 (4)

Master of Music Degree

The Master of Music program is offered with seven options. The Composition option is designed for students desiring advanced study in acoustic or electronic composition. The Commercial Music option is designed for students who wish to acquire the requisite skills for writing, arranging and performing in the commercial music business. The curriculum is designed to provide basic background in a variety of additional skills, including recording, calligraphy and composition, and performance on electronic instruments. Two tracks are offered in the Commercial Music option. The Instrumental and Choral Conducting options provide advanced training in conducting and research into performance practice. The Keyboard, Vocal and Instrumental Performance options are designed to improve individual performance skills through the study of pedagogy and the study and performance of appropriate literature.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in music from an accredited college or university. All applicants must take a graduate placement examination in music history and music theory. Applicants for the Composition option must present a portfolio of their work to the composition area for consideration before acceptance to the program. Applicants for the Commercial Music options must either present an audition of appropriate material or present a portfolio of compositions or arrangements for consideration by the Jazz Studies/Commercial Music area. Students in the Instrumental and Choral Conducting options must present a conducting audition for the appropriate area. Students desiring entrance into these options may also be required to have additional conducting experience or additional outside conducting responsibilities prior to admission to the program. Students in the Performance options must present an audition to the appropriate area committee for admission to the program.

Requirements for the Degree

A total of 45 units is required for the individual options, including at least 23 units in 500-level music courses. A comprehensive examination (MUS 596) is required at the conclusion of the program. A project in the form of a composition, conducting recital, solo recital, lecture recital, or chamber music recital (candidate must play a primary role) is required at the end of each program (MUS 599).

MUS 596 Comprehensive Examination (0)

Students may take the comprehensive examination no earlier than the quarter in which all course work is completed. Students must make arrangements for the comprehensive examination at least one quarter in advance. Students are urged to consult the Department of Music for information on additional procedures.

MUS 599 Thesis or Project (4)

Students are encouraged to request a project director from their area early in their program of study to ensure that progress toward the final project is accomplished in a timely manner. Students should consult the Department of Music for information on procedures and required deadlines.

Required Core (10 units)

MUS 497	Research Techniques in Music (2)
MUS 530B	Advanced Style Analysis (4) or
MUS 530C	Popular Music Style Analysis (4) (Commercial Music Majors only)
MUS 599	Thesis or Project (4)

Option I: Composition (35 units)

A total of 35 units is required in this option. The project for this option is a composition.

Required Courses (22 units)

MUS 460	Composition (3, 3)
MUS 530A	Advanced Style Analysis (4)
MUS 560	Advanced Composition (4, 4)
MUS 569	Seminar: Composition (4)

Electives (13 units)

History and Literature (4 units):

Select one from the following:

MUS 470	History and Literature of Opera (4)
MUS 471	History and Literature of Large Vocal Forms (4)
MUS 472	History and Literature of Vocal Solo Music (4)
MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)

History and Literature (cont'd):

MUS 475	History and Literature of Keyboard Music (4)
MUS 477	History and Literature of the Wind Band in the U.S. (4)
MUS 570	Music of the Medieval Period (4)
MUS 571	Music of Renaissance Period (4)
MUS 572	Music of Baroque Period (4)
MUS 573	Music of Classic Period (4)
MUS 574	Music of Romantic Period (4)
MUS 575	20th Century Music to 1945 (4)
MUS 576	20th Century Music Since 1945 (4)

Composition Electives (9 units)

Select from the following with adviser approval.

MUS 454L	Special Topics in Music (1-4)
MUS 460	Composition (3)
MUS 469	Techniques of Electronic Music (4)
MUS 560	Advanced Composition (4)

Other courses in performance, conducting or applied music with adviser approval.

Option II: Commercial Music (35 units)

A total of 35 units is required for this option. There are two tracks in this option. Track 1 is for Composition and Arranging. Track 2 is for Performance. A common core of 25 units is required for both tracks. Participation in one ensemble per quarter of enrollment is required. The project for this option may be a recital or a composition.

Required courses (25 units)

MUS 469	Techniques of Electronic Music (3)
MUS 545	The Business of Music (3)
MUS 546	Seminar: Commercial Music (4)
MUS 547A	Advanced Orchestration and Arranging for Contemporary Media - Small Sized Combinations (4)

Choose 11 units from the following:

MUS 432	Notation and Calligraphy (2)
MUS 481	Instrumental Conducting (4)
MUS 484	Songwriting (3)
MUS 486	Recording Techniques (2)
MUS 488	Advanced Computer Music (3)
MUS 498	Advanced CO-OP Education (2)

Students must select one of the following tracks with adviser approval (10 units):

Track 1: Composition and Arranging

Required Courses (10 units)

MUS 465	Contemporary Techniques (3)
MUS 467	Music Composition for Television and Film (3)
MUS 547B	Advanced Orchestration and Arranging for Contemporary Media -Medium Sized Combinations (4)

Track 2: Performance

Required Courses (6 units)

MUS 519	Applied Music: Orchestral Instruments (2, 2, 2)
or	
MUS 539	Applied Music: Voice (2, 2, 2)
or	
MUS 549	Applied Music: Keyboard Instruments (2,2,2)

Electives (4 units)

Select 400- or 500-level courses in history, performance, conducting or applied music with adviser approval.

Option III: Choral Conducting (35 units)

A total of 35 units is required for this option. The project for this option is a conducting recital. Participating in one choral ensemble per quarter of enrollment is required.

Required Courses (23 units)

MUS 508	Seminar: Choral Music (4)
MUS 520	Applied Music: Conducting (1, 1, 1)
MUS 530A	Advanced Style Analysis (4)
MUS 580	Advanced Choral Conducting (4)
MUS 581	Advanced Instrumental Conducting (4)
MUS 583	Seminar: Conducting (4)

Electives (12 units)

History and Literature (8 units)

Select two from the following:

MUS 570	Music of the Medieval Period (4)
MUS 571	Music of Renaissance Period (4)
MUS 573	Music of Classic Period (4)
MUS 574	Music of Romantic Period (4)
MUS 575	20th Century Music to 1945 (4)
MUS 576	20th Century Music Since 1945 (4)

Other (4 units)

Select from the following:

MUS 435/539	Applied Music: Voice (1, 1, 1, 1) or
MUS 507	Seminar: Vocal Techniques (4)

Option IV: Instrumental Conducting (35 units)

A total of 35 units is required for this option. The project for this option is a conducting recital. Participating in one instrumental ensemble per quarter of enrollment is required. Students wishing to enter this option must have had the following courses prior to acceptance:

MUS 460	Composition (3)
MUS 462	Advanced Orchestration and Arranging (3)
MUS 465	Contemporary Techniques (4)

Required Courses (27 units)

MUS 473	History and Literature of Symphonic Music (4)
MUS 509	Seminar: Instrumental Music Education (4)
MUS 520	Applied Music: Conducting (1, 1, 1)
MUS 530A	Advanced Style Analysis (4)
MUS 580	Advanced Choral Conducting (4)
MUS 581	Advanced Instrumental Conducting (4)
MUS 583	Seminar: Conducting (4)

Electives (8 units)

Select 400- or 500 level courses in music with adviser approval.

Option V: Keyboard Performance (35 units)

A total of 35 units is required for this option. The project for this option is a solo recital. Participation in one instrumental ensemble per quarter of enrollment is required.

Required Courses (24 units)

MUS 405AB	Piano Pedagogy (3, 3)
MUS 475	History and Literature of Keyboard Music (4)
MUS 530A	Advanced Style Analysis (4)
MUS 549	Applied Music: Keyboard Instruments (2, 2, 2)
MUS 568	Seminar: Performance (4)

Electives (11 units)

History and Literature (8 units)

Select from the following:

MUS 470	History and Literature of Opera (4)
MUS 472	History and Literature of Vocal Solo Music (4)
MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)

Electives (cont'd)

MUS 570	Music of the Medieval Period (4)
MUS 571	Music of Renaissance Period (4)
MUS 572	Music of Baroque Period (4)
MUS 573	Music of Classic Period (4)
MUS 574	Music of Romantic Period (4)
MUS 575	20th Century Music to 1945 (4)
MUS 576	20th Century Music Since 1945 (4)

Keyboard Performance (3 units)

Select 400- or 500-level keyboard courses with adviser approval.

Option VI: Vocal Performance (35 units)

A total of 35 units is required for this option. The project for this option is a solo recital.

Required Courses (24 units)

MUS 437ABC	Song Repertoire and Interpretation (2, 2, 2)
MUS 507	Seminar: Vocal Techniques (4)
MUS 530A	Advanced Style Analysis (4)
MUS 539	Applied Music Voice (2, 2, 2)
MUS 568	Seminar: Performance (4)

Electives (11 units)

History and Literature (8 units)

Select two from the following:

MUS 470	History and Literature of Opera (4)
MUS 471	History and Literature of Large Vocal Forms (4)
MUS 472	History and Literature of Vocal Solo Music (4)
MUS 570	Music of the Medieval Period (4)
MUS 571	Music of Renaissance Period (4)
MUS 572	Music of Baroque Period (4)
MUS 573	Music of Classic Period (4)
MUS 574	Music of Romantic Period (4)
MUS 575	20th Century Music to 1945 (4)
MUS 576	20th Century Music Since 1945 (4)

Other (3 units)

Select from the following:

MUS 435	Voice (2)
MUS 454L	Special Topics in Music (1-4)
MUS 460	Composition (3)
MUS 461	Choral Arranging (3)
MUS 462	Advanced Orchestration and Arranging (4)
MUS 463	Counterpoint (3)
MUS 464	Musical Form (3)
MUS 465	Contemporary Techniques (4)
MUS 466A	Commercial Arranging (3)
MUS 501	Psychology of Music (4)
MUS 539	Applied Music: Voice (1, 1)
MUS 560	Advanced Composition (4)
MUS 580	Advanced Choral Conducting (4)
MUS 581	Advanced Instrumental Conducting (4)
MUS 598	Graduate Directed Study (1-4)

Option VII: Instrumental Performance (35 units)

A total of 35 units is required for this option. The project for this option is a solo recital. Participation in one instrumental ensemble per quarter of enrollment is required.

Required Courses (14 units)

MUS 519	Applied Music: Orchestral Instruments (2, 2, 2)
MUS 530A	Advanced Style Analysis (4)
MUS 568	Seminar: Performance (4)

Electives (21 units)**History and Literature (8 units)**

Select two from the following:

MUS 473	History and Literature of Symphonic Music (4)
MUS 474	History and Literature of Chamber Music (4)
MUS 477	History and Literature of Wind Band in the U.S. (4)
MUS 570	Music of the Medieval Period (4)
MUS 571	Music of Renaissance Period (4)

History and Literature (cont'd)

MUS 572	Music of Baroque Period (4)
MUS 573	Music of Classic Period (4)
MUS 574	Music of Romantic Period (4)
MUS 575	20th Century Music to 1945 (4)
MUS 576	20th Century Music Since 1945 (4)

Other Electives (13 units)

Select 400- or 500-level courses in music with adviser approval.

List of Courses (MUS) - Undergraduate Level**Lower Division Courses****115 Strings (1)**

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, classical guitar, and harp. May be repeated to maximum of 3 units.

116 Woodwinds (1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, bassoon, clarinet, saxophone, and recorder. May be repeated to maximum of 3 units.

117 Brass (1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. May be repeated to maximum of 3 units.

118 Percussion (1)

Prerequisite: Students admitted by audition only. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, and timpani. May be repeated to maximum of 3 units.

135 Voice (1)

Prerequisite: Students admitted by audition only. Principles and techniques of singing. Development of song repertoire. May be repeated to maximum of 3 units.

145 Piano (1)

Prerequisite: Admission by audition only. Instruction in development of technique and repertoire; performance in a public recital expected. May be repeated to maximum of 3 units.

146 Organ (1)

Prerequisite: Admission by audition only. Instruction in development of technique and repertoire. May be repeated to maximum of 3 units.

147 Keyboard Harmony and Sight Reading (1)

Corequisite: MUS 145 or 343C. Keyboard harmony and sight reading music on the piano: chord progressions, harmonization, patterns of pitch and rhythmic notation. Activity: two hours. May be repeated to maximum of 3 units.

150 Music in World Culture (4)

Study of the music of many cultures within a broad humanities framework of visual arts, literature, history, and philosophy. A written project is required. **GE C2**

152 History of American Popular Music (4)

The origins and developments of popular music in the United States from the late 19th century through today including historical and technological influences.

160 Music Fundamentals (4)

Exploring basic musical elements common to the major world cultures through improvisation; emphasis on rhythm, melody, harmony, texture, and form. **GE C2**

161ABC Music Theory I, II, III (3, 3, 3)

Prerequisites: MUS 160 or instructor approval. Corequisite MUS 162ABC, 243ABC. Integrated approach to music theory: essentials of harmony, counterpoint, form, and keyboard experience emphasized. Meets 3 hours weekly.

162ABC Musicianship I, II, III (1, 1, 1)

Prerequisite: MUS 160 or instructor approval. Must be taken concurrently with 161ABC and 243ABC; Sight-singing, ear-training, keyboard application, and aural analysis correlated with 161ABC. Meets 2 hours weekly.

170AB Music Literature (2, 2)

170A: Representative music literature from Middle Ages through Classical period.

170B: Representative music literature from Romantic period to present.

190 Exploring Sound, Movement, and Melody in Preschool Teaching (4)

Pre-school child learning activities to explore sound, movement, song activities; learn basic song repertoire for young children and basic developmental movement skills. Not applicable to GE or credential requirements. Lecture 2 hours, laboratory 4 hours.

191 Introduction to Music In Schools (2)

Introduction to choral, instrumental, and general music teaching techniques. Current approaches to music education are explored and observed in area elementary and secondary schools.

211 Orchestral Instruments (3 each)

Class instruction in theory and performance of orchestral instruments; ensemble experience provided. Designed for all music majors and minors except those with an instrumental focus. Meets 4 hours weekly.

211B Brass and Percussion**211S Strings****211W Woodwinds****215 Strings (1)**

Prerequisite: MUS 115 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, classical guitar, and harp. May be repeated to maximum of 3 units.

216 Woodwinds (1)

Prerequisite: MUS 116 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, clarinet, bassoon, saxophone, and recorder. May be repeated to maximum of 3 units.

217 Brass (1)

Prerequisite: MUS 117 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone or baritone, and tuba. May be repeated to maximum of 3 units.

218 Percussion (1)

Prerequisite: MUS 118 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drums, mallet instruments, multiple percussion, and timpani. May be repeated to maximum of 3 units.

230 Elementary Voice Instruction (2)

Primarily for students not majoring in music. Technique of voice production, study of song interpretation, emphasis upon recreational singing, some attention to elementary musicianship and remedial problems. Meets 4 hours weekly. May be repeated to maximum of 6 units.

235 Voice (1)

Prerequisite: MUS 135 or jury examination. Principles and techniques of singing. Development of song repertoire. May be repeated to maximum of 3 units.

243ABC Class Piano Instruction (1, 1, 1)

Prerequisite: MUS 160. Development of piano skills: technique harmonization and transposition, score reading, sightreading, and accompaniment. Activity 2 hours.

244AB Introduction to Organ and Harpsichord (1, 1)**244A**

Corequisite: MUS 245. Introduction to Organ: Design, Technique, and Literature.

244B

Corequisite: MUS 245. Introduction to Harpsichord: Design, Technique and Literature.

245 Piano (1)

Prerequisite: MUS 145 or consent of piano faculty by audition. Instruction in development of technique and repertoire; performance in a public recital is expected. May be repeated to maximum of 3 units.

246 Organ (1)

Prerequisite: MUS 146 or jury examination. Instruction in development of technique and repertoire. May be repeated to maximum of 3 units.

247 Keyboard Sight Reading/Ensemble (1)

Prerequisite: MUS 145. Development of sightreading skills and ensemble experience on the piano: score reading and reduction technique. May be repeated to total of 6 units.

261ABC Music Theory IV, V, VI (3, 3, 3)

Prerequisite: MUS 161C, 162C. Must be taken concurrently with 262ABC. Continued study of materials of music using more complex forms and more difficult techniques and styles. Writing emphasis on student's performing medium. Meets 3 hours weekly.

262ABC Musicianship IV, V, VI (1, 1, 1)

Prerequisites: MUS 161C, 162C. Must be taken concurrently with 261ABC. Sight singing, ear training, keyboard application, and aural analysis correlated with MUS 261ABC. Activity two hours.

Upper Division Courses**300 Career Planning and Writing in Music (3)**

Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Combined career assessment/planning with writing skills. Career component includes assessment, job opportunities, and planning. Extensive writing practice of projects useful to the field.

312 Orchestral Instruments A-H (2)

Prerequisites: MUS 161ABC and 162ABC. Development of performance proficiencies on orchestral instruments and guitar. Emphasis on instrument pedagogy. Meets 3 hours weekly. Each section may be repeated to a maximum of 4 units if different instruments are studied.

312A-High Strings**312B-Low Strings****312C-Single Reeds****312D-Double Reeds/Flute****312E-High Brass****312F-Low Brass****312G-Percussion****312H-Guitar****313 Instrumental Pedagogy (3)**

Prerequisite: MUS 312. Methods, materials, and techniques related to individualized instruction in woodwinds, brass, percussion, strings, and keyboard instruments; lecture and laboratory experience in teaching. Lecture 2 hours, activity 2 hours.

315 Strings (1 or 2)

Prerequisite: MUS 215 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, classical guitar, and harp. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

316 Woodwinds (1 or 2)

Prerequisite: MUS 216 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, clarinet, bassoon, saxophone, and recorder. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

317 Brass (1 or 2)

Prerequisite: MUS 217 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

318 Percussion (1 or 2)

Prerequisite: MUS 218 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, and timpani. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

320 Symphonic Band (1)

Prerequisite: Instructor consent. Preparation and performance of standard and contemporary literature of the symphonic band. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

321 Symphony Orchestra (1)

Prerequisite: Instructor consent. Preparation and performance of standard and contemporary literature of the symphony orchestra. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

326 Concert Choir (1)

Prerequisite: Instructor consent through audition. Preparation and public performance of standard choral literature and contemporary choral works. Concerts given on and off campus. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

327 Chorus (1)

Preparation and performance of standard choral literature, primarily in large forms, with accompaniment. Meets minimum of 4 hours weekly. May be repeated to maximum of 12 units.

328 Vocal Jazz Ensemble (1)

Prerequisite: Faculty consent by audition. Preparation and public performance of standard and contemporary vocal jazz literature. May be repeated to maximum of 12 units.

330 Principles of Applied Vocal Development (3)

Prerequisite: MUS 230 or one year of choral experience. Open to music majors and minors only. Principles of correct vocal production development through lecture and demonstration with laboratory experience in solo singing. Analysis by class members and instructor. Lecture 2 hours, laboratory 2 hours.

335 Voice (1 or 2)

Prerequisite: MUS 235 or jury examination. Principles and techniques of singing. Development of song repertoire. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

343ABC Class Piano Instruction (1, 1, 1)

Prerequisite: MUS 243C. Continuation of technical development from previous study. Emphasis on piano repertoire for individual student development. Activity 2 hours.

344 Functional Piano for Teachers (2)

Prerequisites: MUS 161ABC, 162ABC, 343C acceptable performance on placement examination or instructor consent. Development of keyboard competency by application of principles of musicianship, including harmonization, transposition, improvisation, score reading, playing by ear, and directing from the piano. Activity 4 hours. May be repeated to maximum of 4 units.

345 Piano (1 or 2)

Prerequisite: MUS 245 or consent of piano faculty by audition. Instruction in development of technique and repertoire. Performance in a public recital expected. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

346 Organ (1 or 2)

Prerequisite: MUS 246 or jury examination. Instruction in development of technique and repertoire. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

351 Music Appreciation (4)

Understanding and enjoying music through study of various musical cultures including those of Western Europe, Latin America, Asia, and Africa. Required attendance at selected concerts.

355 The Creative Aspects of Music (4)

Prerequisite: MUS 160. Development of an awareness of our innate musicality: the natural physical and mental rhythms of everyday life and all the perceptual skills that are related to music.

357 Creative Experiences for Health and Wellness (4)

(also listed as ART 357, DANC 357, and TA 357)

Prerequisites: ART 151 or MUS 150 or 160; DANC 157 or TA 152 or HS 150. Exploring health and wellness through participation in the creative arts - dance, visual arts, music and theatre arts.

362 Orchestration and Arranging (4)

Prerequisites: MUS 261C, 262C; prior completion of MUS 211 or 312 recommended. Theory of writing for instrumental ensembles, Instrumentation, basic instrumental acoustics, study of orchestral scores, and introduction to symphonic orchestration and arranging.

366 Elements of Jazz Harmony (3)

Prerequisite: MUS 261C. The study of the fundamental aspects of jazz harmony and composition, including harmonic progression, melodic design and rhythmic formulation.

368ABC Jazz Improvisation (2, 2, 2)

368A: Prerequisites: MUS 161C, MUS 162C.

Basic improvisation technique, including scales, chords, simple harmonic progressions, and standard blues literature characteristic of jazz idiom. Meets 3 hours weekly.

368B: Prerequisite: MUS 368A. Continuation of development of improvisational techniques with emphasis on standard jazz literature. Meets 3 hours weekly.

368C: Prerequisite: MUS 368B. Continued development of improvisational techniques, composition, and transcription of jazz melodies. Meets 3 hours weekly.

370-371-372 History of Music in Western Civilization I-II-III (4 each)

Prerequisites: 261C, 262C, and 170AB. Survey of music in general culture, emphasizing evolution of musical style and practice.

380 Beginning Conducting (3)

Prerequisites: MUS 261C, 262C. Elements of baton techniques, interpretation, score reading, and rehearsal techniques utilizing suitable choral and instrumental literature. Meets 4 hours weekly.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

400 Development of Perception in Musical Arts (4)

Perceptual, expressive, historical, and cultural components associated with musical-aesthetic phenomena. Lecture, demonstrations, and field trips. Meets 5 hours weekly. Lecture 3 hours, activity 2 hours.

401 Elementary General Music Techniques (3)

Prerequisites: MUS 261C and 262C. Comparison of ideas and practices relevant to the teaching of elementary general music in grades K-12. Observation and participation laboratory provided.

402 World Musics (3)

Prerequisites: MUS 161C and 162C. Introduction to musical styles of world cultures with emphasis on theory, forms, instruments and sociological implications. Influence of world musics on popular musical styles.

403 Training Select Children's Choirs (3)

Prerequisites: MUS 330, 380. Choral techniques as applied to children with vocal ability or interest prior to and during voice change. Arranged visits with school and community children's choir rehearsals. Meets 3 hours weekly.

404 Acoustical Analysis of Instrument Construction (3)

Prerequisite: MUS 312 A-H. Physical and acoustical principles of musical instrument construction with laboratory experience in evaluation and maintenance of instruments. Meets 4 hours weekly.

405AB Piano Pedagogy (3, 3)

Prerequisite: MUS 345.

405A: Approaches to Piano Teaching.

405B: Materials for Beginning/Intermediate Piano Students; observation of teaching.

406 Comparative Vocal Techniques (3)

Prerequisite: MUS 330. Comparative analysis of theories of vocal production as applied to the child voice, changing voice, and mature voice; study of the literature for each category.

407 Instrumental Techniques I (3)

Prerequisite: Completion of 312 series or equivalent knowledge of orchestral instruments. Comparison of ideas and practices relevant to the teaching of instrumental music at the elementary and junior high school levels. Observation and participation in laboratory provided. Lecture 2 hours, activity 2 hours.

408 Choral Techniques (3)

Prerequisites: MUS 261C, 262C, 330, 344, 480. Period, style, form, and other technical aspects of literature suitable for various types of vocal ensembles, and analysis of performance problems. Lecture 2 hours, activity 2 hours.

409 Instrumental Techniques II (3)

Prerequisite: Completion of 312 series or equivalent knowledge of orchestral instruments. Comparison of ideas and practices relevant to the teaching of instrumental music at the high school level. Observation and participation in laboratory provided. Lecture 2 hours, activity 2 hours.

411 Performance Pedagogy (2)

Prerequisite: 300-level applied music course. Solo repertoire for brass, winds, percussion, strings, keyboard, or voice; emphasis on analysis, interpretation, and performance of representative literature. May be repeated to maximum of 6 units. Lecture 1 hour, activity 2 hours.

411B Brass**411K Keyboard****411P Percussion****411S Strings****411V Voice****411WWinds****415 Strings (1 or 2)**

Prerequisite: MUS 315 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of violin, viola, cello, bass, classical guitar, and harp. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

416 Woodwinds (1 or 2)

Prerequisite: MUS 316 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of flute, oboe, clarinet, bassoon, saxophone, and recorder. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

417 Brass (1 or 2)

Prerequisite: MUS 317 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of trumpet, French horn, trombone, baritone, and tuba. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

418 Percussion (1 or 2)

Prerequisite: MUS 318 or jury examination. Instruction in technique, repertoire, literature, and pedagogy for students of snare drum, mallet instruments, multiple percussion, and timpani. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

420 String Ensemble (1)

Prerequisite: Instructor consent. Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

421AB Woodwind Ensemble (1, 1)

Prerequisite: Instructor consent. Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly.

421A: For mixed woodwind instruments (for example, flute; oboe; clarinet and bassoon; and flute trios). May be repeated to maximum of 12 units.

421B: For clarinet choir, clarinet, and saxophone trios. May be repeated to maximum of 12 units.

422 Brass Ensemble (1)

Prerequisite: Instructor consent. Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

423 Percussion Ensemble (1)

Prerequisite: Instructor consent. Rehearsal and performance of standard ensemble literature, including quartets, quintets, sextets, and larger works. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

424 Jazz Ensemble (1)

Prerequisite: Instructor consent. Rehearsal and performance of standard Jazz orchestra literature, including original and published arrangements. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

425 Chamber Singers (1)

Prerequisite: Instructor consent by audition. Choral music from 15th century to present with special attention to madrigals; music of all styles for choral ensemble of twenty or less. Concerts on and off campus. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

426 Opera Repertory, Performance, and Production (1)

Prerequisite: Instructor consent. Training in the preparation and performance of operatic repertory. Meets minimum of 3 hours weekly. May be repeated to maximum of 12 units.

427 Latin-Jazz Ensemble (1)

Prerequisite: Consent of instructor. Rehearsal and performance of Latin-Jazz including Afro-Cuban music as well as rhythms from other Latin-American countries for a medium size ensemble. May be repeated to a maximum of 12 units.

428 New Music Ensemble (1)

Prerequisite: Instructor consent. Rehearsal and performance of 20th century chamber music literature with special emphasis on recent works and student compositions. Meets minimum of 3 hours weekly.

429 Jazz Ensemble: Small (1)

Prerequisite: Instructor consent. Rehearsal and performance of jazz literature for small ensemble (2-9 players) in a variety of combinations. May be repeated to maximum of 12 units.

431 Proseminar: Theory Pedagogy (4)

Prerequisite: MUS 261C. Comparative study of various techniques, procedures, and instructional materials used in teaching music theory with special emphasis on new instructional media.

432 Notation and Calligraphy (2)

Prerequisites: MUS 161C, 162C. Procedure utilized for preparing and copying music manuscripts in professional manner. Lecture 1 hour, activity 2 hours.

435 Voice (1 or 2)

Prerequisite: MUS 335 or jury examination. Principles and techniques of singing. Development of song repertoire. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

436 Foreign Language Diction for Singers (2)

Prerequisite: Instructor consent. Italian, German, and French vocal texts in original language; phonetic pronunciation, comprehension through lectures, listening, speaking, and translation techniques; emphasis on one language each quarter. See Schedule of Classes for language emphasis. Lecture 2 hours, laboratory 1 hour. May be repeated to maximum of 6 units.

437A Song Repertoire and Interpretation - French (2)

Prerequisite: Upper division standing. Survey of French language song literature in all periods of music history. Emphasis on student performances of representative selections.

437B Song Repertoire and Interpretation - German (2)

Prerequisite: Upper division standing. Survey of German language song literature in all periods of music history. Emphasis on student performances of representative selections.

437C Song Repertoire and Interpretation - English and Italian (2)

Prerequisite: Upper division standing. Survey of English and Italian language song literature in all periods of music history. Emphasis on student performances of representative selections.

439 Introduction to Music Librarianship (4)

Course offered On-line only. Introduction to the necessary skills of music librarianship. The course is designed for someone working in a music library who is not a trained librarian, or a librarian with limited music background. Repeatability: None.

445 Piano (1 or 2)

Prerequisite: MUS 345 or consent of piano faculty by audition. Instruction in development of technique and repertoire. Performance in a public recital expected. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

446 Organ (1 or 2)

Prerequisite: MUS 346 or jury examination. Instruction in developmental of technique and repertoire. Students preparing for B.A. degree enroll for 1 unit; may be repeated to maximum of 3 units. Students preparing for B.M. degree enroll for 2 units; may be repeated to maximum of 6 units.

447 Accompanying (2)

Prerequisite: Instructor consent. Training in performance styles of different periods and combinations of performers and in the specific tasks of accompanying. Practical experience through guided performance with vocalists and instrumentalists. Meets 4 hours weekly. May be repeated to maximum of 6 units.

452 History of Jazz (4)

Nature and processes of jazz with concentration on its historical background and development in the U.S., and its resultant impact on culture and music worldwide.

454L,P Special Topics in Music (1-4)

Prerequisites: Upper division standing: specific prerequisites subject to course content. Selected topics reflecting specific issues, problems, and interests in music, as announced in Schedule of Classes. May be repeated to maximum of 12 units as subject matter changes.

**455 The Creative Genius in Art and Music (4)
(also listed as ART 455)**

Great artists and musicians throughout history; their philosophy, innovations, accomplishments, and effects on culture and history.

**456 Nature, Environment, and the Arts (4)
(also listed as ART 456)**

Human attitudes toward the natural environment as revealed in the visual arts and music. Analysis and interpretation of examples from various periods and cultures.

458 Music of Latin America (4)

Prerequisite: MUS 150 or 351. Development of understanding of and appreciation for music of Latin America; examination of representative works from folk and art music of the twenty republics.

460 Composition (3)

Prerequisites: MUS 261C, 262C, 362. Writing for small instrumental and/or vocal ensembles. May be repeated to maximum of 18 units.

461 Choral Arranging (3)

Prerequisite: MUS 261C, 262C. Writing and arranging for vocal groups, problems in arranging for the usual school groups, and creative arranging in smaller vocal forms.

462 Advanced Orchestration and Arranging (3)

Prerequisite: MUS 362. Survey of techniques necessary for orchestrating compositions for symphonic band and symphony orchestra; special attention given to problems encountered in public school bands and orchestras.

463 Counterpoint (3)

Prerequisites: MUS 261C, 262C. Eighteenth century contrapuntal techniques, including some work in the species; invertible counterpoint, motive development, two- and three-part inventions, and the fugue.

464 Musical Form (3)

Prerequisites: MUS 261C, 262C. Analytic techniques for study of balance in organization of musical material.

465 Contemporary Techniques (4)

Prerequisites: MUS, 261C, 262C. Techniques used in contemporary composition.

466A Jazz Arranging: Beginning (3)

Prerequisite: MUS 368C. Basic arranging techniques. Emphasis on arranging for small jazz ensembles with practical writing experience. Will cover voicings, scoring practices, calligraphy and contemporary trends within the medium.

466B Jazz Arranging: Advanced (3)

Prerequisite: MUS 466A. Advanced arranging techniques for jazz and studio orchestras, including use of extended forms, woodwind doubles and unusual meter. May be repeated to maximum of 9 units.

467 Music Composition for Television and Films (3)

Prerequisites: 261C, 262C, 362. Techniques used in composing music for television and film productions; practical writing experience.

468 Jazz Pedagogy (3)

Prerequisite: MUS 368C or instructor consent. Techniques and materials for teaching jazz improvisation, jazz arranging, jazz history, and jazz ensemble.

469 Techniques of Electronic Music (3)

Prerequisite: At least one quarter of MUS 460. Composing for electronic media; recording, synthesis, notation, sound resources. Study of aesthetics of composition for electronic sounds. Lecture 2 hours, activity 2 hours. May be repeated to maximum of 18 units.

470 History and Literature of Opera (4)

Prerequisites: MUS 370–372. Development of opera from Baroque to present; discussion and analysis of representative opera texts and scores with emphasis on visual experience.

471 History and Literature of Large Vocal Forms (4)

Prerequisites: MUS 370–372. Development of large vocal forms from Baroque to present; discussion and analysis of representative works including masses, cantatas, and oratorios.

472 History and Literature of Vocal Solo Music (4)

Prerequisites: MUS 370–372. Development of solo song from Baroque to present; discussion and analysis of representative art songs and vocal chamber music.

473 History and Literature of Symphonic Music (4)

Prerequisites: MUS 370–372. Development of symphonic music from pre-classicism to present; discussion and analysis of representative orchestral scores.

474 History and Literature of Chamber Music (4)

Prerequisites: MUS 370–372. Development of instrumental chamber music from Renaissance to present; discussion and analysis of representative works.

475 History and Literature of Keyboard Music (4)

Prerequisites: MUS 370–372. Development of keyboard music from Renaissance to present; discussion and analysis of representative works for keyboard instruments including harpsichord, organ, and piano.

477 History and Literature of Wind Band in U.S. (4)

Prerequisites: MUS 370–372. History of wind band in U.S.; emphasis on twentieth century literature.

480 Choral Conducting (3)

Prerequisite: MUS 380. Application of basic conducting techniques to problems of choral conducting. May be repeated to maximum of 9 units. Meets 4 hours weekly.

481 Instrumental Conducting (3)

Prerequisite: MUS 380; 312 recommended. Experience offered in transposition, score reading, baton technique, and interpretation of symphonic literature; recognition of psychologically sound rehearsal procedure. Meets 4 hours weekly.

483 Analysis of Jazz Styles and Literature (3)

Prerequisites: MUS 261C, 262C, 368C, 452. Survey of significant jazz composers, their contributions and performance practices; analyses of representative compositions and improvisations.

484 Commercial Songwriting (3)

Prerequisites: MUS 261C, 262C. Techniques of songwriting. Melodic, harmonic writing with lyrics in the context of contemporary commercial music.

485 Chamber Music (1)

Prerequisite: 300-level applied music course. Study and performance of selected works from the duo, trio, quartet, or larger chamber ensemble literature. Activity 4 hours. May be repeated to maximum of 6 units.

486 Recording Techniques (2)

Prerequisite: Upper division standing. Techniques of audio recording currently in use in studio and concert settings. Multi-track and master recording using digital and analog formats. May be repeated to maximum of 6 units.

488 Advanced Computer Music (3)

Prerequisite: MUS 469. Advanced techniques in MIDI technology using computers and synthesizers. Continuation of MUS 469. May be repeatable up to 18 units.

489 Instructional Technology for the Music Educator (3)

Prerequisite: MUS 261C. Computer applications for musicians, familiarity with available software, integrating computer technology into the music classroom and the development of a teaching module. Lecture 2 hours, activity 2 hours.

490 Music for Early Childhood (4)

Prerequisites: EDFN 413, CHDV 320, PSY 412A. Music activities suitable for the young child. Includes five field trips for observation of children in preschool or kindergarten and primary situations. May not be taken in lieu of MUS 400.

491 Music as Therapy in Human Development (4)

Exploration of music and movement as vehicles for therapy, including activities designed to promote a sense of health and well-being for disabled children and adults.

492 Musical Creativity for Children (4)

Prerequisite: MUS 400 or 490. Use of Orff-Schulwerk method to develop creativity in children through singing, movement, instruments, and language. Lecture 3 hours, activity 2 hours.

493 Solfege I (3)

Prerequisite: MUS 261C. Introduction to the pentatone through ear training, sight singing, reading, writing, and interval study. Explores pentatonic melodies with tonal counters on do, la, re and sol. Introduction to the Curwen hand signs.

494 Kodaly Methodology Level I (4)

Prerequisite: MUS 401. Philosophy and pedagogy of Zoltan Kodaly applied to American music education. Level I presents pedagogy for preschool through grade 2. Additional 15 contact hours required for national certification. Lecture 3 hours, activity 2 hours.

495 Orff-Schulwerk Certification Level I (4)

Prerequisite: MUS 401. Basic Orff pedagogy for working with pentatonics on do and la, beginning movement experiences and introduction to the soprano recorder. Follows AOSA guidelines for Level I certification. Lecture 3 hours, activity 2 hours.

496 Demonstration of Competencies in Music Education (1)

A capstone examination in which students must demonstrate musical competency in five areas: senior recital, piano proficiency, conducting skills, ear training/ sightsinging, and music history and theory.

497 Research Techniques in Music (2)

Basic bibliography, survey of literature, methods of research in music and music education, and practice in organizing and reporting data, both oral and written.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated to a maximum of 12 units for credit.

Graduate Level Courses (MUS)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser. MUS 400

Classified graduate standing in Music or equivalent music background is required for admission to all 500 level courses.

501 Psychology of Music (4)

Prerequisites: MUS 497, introductory course in psychology or educational psychology, at least 30 units in music. Musical personality, perception of musical characteristics, musical taste, and theories of learning applied to music; survey of standardized tests of musical aptitude and achievement.

502 Seminar: Music Education (4)

Prerequisites: MUS 497, baccalaureate with major in music education, at least one year of teaching experience. Evaluation of research and various philosophies, methods, and trends in music education.

503 Musics in World Cultures for the Music Educator (4)

Gaining knowledge and understanding of musics of nonwestern origin through experiences in listening and active participation. Curriculum development projects in multicultural music education for students in K-12 programs.

504 Evaluation and Testing in Music (4)

Measurement and evaluation of music behaviors. Acquaints students with standardized tests in music aptitude and achievement. Emphasizes teacher-made tests measuring cognitive psychomotor and affective outcomes.

507 Seminar: Vocal Techniques (4)

Prerequisite: MUS 406. Seminar and critique on psychophysiological approach to vocal techniques. Designed for experienced teachers, soloists, and choir directors. Individual research and class demonstration.

508 Seminar: Choral Music (4)

Prerequisites: MUS 408, 497. Survey of choral literature with emphasis on stylistic and performance practice considerations.

509 Seminar: Instrumental Music Education (4)

Prerequisites: MUS 407 or 409; 497. Survey and criteria for selection and interpretation of instrumental music.

510 Graduate Choral Ensemble (1)

Prerequisite: Instructor consent by audition. Student will be required to perform additional duties such as: conducting sectionals, preparation of program notes. May be repeated to a maximum of 9 units.

511 Graduate Instrumental Ensemble (1)

Prerequisite: Instructor consent by audition to Symphonic Band or Symphony Orchestra. Student will be required to perform additional duties such as: conducting sectionals, preparation of program notes. May be repeated to a maximum of 9 units.

519 Applied Music: Orchestral Instruments (1-2)

Prerequisite: Instructor consent. Lessons on campus with approved instructors. May be repeated to a maximum of 6 units.

520 Applied Music: Conducting (1)

Prerequisite: Instructor consent. Private instruction in score preparation and conducting technique as applied to specific literature for band, orchestra, choir, or other selected ensembles. May be repeated to maximum of 3 units.

530AB Advanced Style Analysis (4, 4)

Prerequisites: MUS 464, 465, . Advanced analytical techniques applied to study of musical styles as related to period, genre, geographic region, and individual composers.

530A:Chronological Survey to 1700.**530B:From 1700 to the Present****530C Popular Music Style Analysis (4)**

Prerequisite: Admission to the M.M. Commercial Music option or permission of the Instructor. Advanced analytical techniques applied to the study of popular music styles as related to period, genre and individual composers.

539 Applied Music: Voice (1-2)

Prerequisite: Instructor consent. Lessons on campus with approved instructors. May be repeated to maximum of 6 units.

545 The Business of Music (3)

Review of contracts, copyright, licensing, unions and basic business practices used in the commercial music industry.

546 Seminar: Commercial Music (4)

Prerequisite: MUS 545. Practical, theoretical, and philosophical approaches for achieving success as a professional musician in the commercial music industry; emphasis on discourse with professionals in Los Angeles.

547ABC Advanced Orchestration and Arranging for Contemporary Media (4, 4, 4)**547A:Small Sized Combinations**

Prerequisites: MUS 462, 466B, 467. Advanced techniques in arranging and orchestrating music for film (narrative, documentary, commercials), radio commercials, and records; emphasis on writing for small (2-10) instrumental ensembles with MIDI instruments available.

547B:Medium Sized Combinations

Prerequisite: MUS 547A. Advanced techniques in arranging and orchestrating music for film, radio commercials, and records; emphasis on writing for medium-sized (9-24) instrumental and vocal ensembles with MIDI instruments included.

547C:Large Sized Combinations

Prerequisite: MUS 547B. Advanced techniques in arranging and orchestrating music for film, radio commercials, and records; emphasis on writing for large studio orchestras.

549 Applied Music, Keyboard Instruments (1-2)

Prerequisite: Instructor consent. Lessons on campus with approved instructors. May be repeated to maximum of 6 units.

560 Advanced Composition (4)

Prerequisite: MUS 460. Free composition in selected vocal and instrumental forms. May be repeated to maximum of 12 units.

568 Seminar: Performance (4)

Prerequisite: 400-level applied music course. Student performance with critiques highlighting stylistic, aesthetic, and practical components that influence musical performance; artist performances (taped or live) and critiques; preparation of graduate recital.

569 Seminar: Composition (4)

Prerequisites: MUS 497, 560. Philosophies and aesthetic theories involved in contemporary music; compositional problems and projects of an advanced nature intended to synthesize previous creative skills and techniques. May be repeated to maximum of 8 units.

570 Music of the Medieval Period (4)

Characteristics of Medieval period; analysis of representative works; music in relation to other arts and medieval society.

571 Music of Renaissance Period (4)

Discussion of stylistic characteristics of music of Renaissance; formal, technical, and thematic score analysis of representative works, accompanied by live or recorded performance.

572 Music of Baroque Period (4)

Characteristics of Baroque music; analysis of representative works and performance practices; music in relation to Baroque arts and society.

573 Music of Classic Period (4)

Characteristics of Classic period; analysis of representative works; music in relation to 18th century arts and society.

574 Music of Romantic Period (4)

Characteristics of Romantic period; analysis of representative works; music in relation to 19th century arts and society.

575 20th Century Music to 1945 (4)

Characteristics of 20th century music from 1900 to 1945; analysis of representative works; music in relation to early 20th century arts and society.

576 20th Century Music Since 1945 (4)

Characteristics of 20th century music from 1945 to present; analysis of representative works; music in relation to avant-garde arts and society.

579 Seminar: Musicology (4)

Prerequisite: MUS 497. Specific musicological problems reported by students and discussed by class. May be repeated to maximum of 12 units.

580 Advanced Choral Conducting (4)

Prerequisite: MUS 480. Analysis of conducting problems of standing choral literature, including both accompanied and unaccompanied music; study of metric relationships, less frequently used conducting patterns, and survey of literature. May be repeated to maximum of 8 units.

581 Advanced Instrumental Conducting (4)

Prerequisite: MUS 481. Analysis and preparation for conducting major works for symphonic band and orchestra. May be repeated to maximum of 8 units.

583 Seminar: Conducting (4)

Prerequisites: MUS 480 or 481; 580 or 581; 508; 509; 497. Conducting topics; study of literature, analytical procedures, and rehearsal techniques applicable to choral and instrumental conducting. May be repeated to maximum of 12 units.

584 Solfege II (3)

Prerequisite: MUS 493. Further development of aural, vocal and visual skills through sight singing and ear training with emphasis on diatonic scales through the use of movable do solmization. Includes rhythmic, melodic and harmonic dictation.

585 Solfege III (3)

Prerequisite: MUS 584. Further development of aural, vocal and visual skills through sight singing and ear training with emphasis on modal scales, modulation and chromaticism. Includes a teaching practicum.

586 Kodaly Methodology Level II (4)

Prerequisite: MUS 494. Philosophy and pedagogy of Zoltan Kodaly applied to American music education. Level II presents pedagogy for grades 3-5. Additional fifteen contact hours required for national certification. Lecture 3 hours, activity 2 hours.

587 Orff-Schulwerk Certification Level II (4)

Prerequisite: MUS 495. Basic Orff pedagogy for working with modal music, folk dance in 5 and 7 meters and introduction to the alto recorder. Follows AOSA guidelines for Level II certification. Lecture 3 hours, activity 2 hours.

588 Kodaly Methodology Level III (4)

Prerequisite: MUS 586. Philosophy and pedagogy of Zoltan Kodaly applied to American music education. Level III presents pedagogy for middle school and high school instruction. Additional fifteen contact hours required for national certification. Lecture 3 hours, activity 2 hours.

589 Orff-Schulwerk Certification Level III (4)

Prerequisite: MUS 587. Orff pedagogy for major-minor, the addition of tenor and bass recorders and a teaching practicum of original music and movement. Follows AOSA guidelines for Level III certification. Lecture 3 hours, activity 2 hours.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 12 units.

599 Thesis or Project (1-4)

Prerequisites: MUS 497, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 4 units. Graded CR/NC.

Programs in Natural Science

School of Natural and Social Sciences
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Email: natsci@calstatela.edu
Website: <http://www.calstatela.edu/academic/natsci>

Coordinators: Ken Anderson and Donald Paulson

Programs offered under the heading of Natural Science emphasize the interrelationships among the several natural science disciplines. They are designed primarily for prospective teachers, but are also of value to anyone seeking careers in such areas as government, environmental law, ecology, or other areas where a broad science background is useful. Two programs are offered: a Bachelor of Science degree, and the subject matter preparation for the Single Subject Teaching Credential in Science.

The Faculty

Instruction is provided by the faculties of all natural science departments, i.e., Biology and Microbiology, Chemistry and Biochemistry, Geological Sciences, and Physics and Astronomy, as well as the Department of Mathematics and Computer Science and the Department of Geography and Urban Analysis. Advisement information is available from the Natural Science Coordinator.

Undergraduate Programs

Bachelor of Science Degree in Natural Science

The Bachelor of Science degree in Natural Science is designed primarily for students who are seeking a Single Subject teaching credential in Science. Students completing this degree will have simultaneously fulfilled the subject matter requirements for that credential. Total units for the degree depends on which option is chosen.

High school preparation is recommended in physics, chemistry, geometry, trigonometry, and algebra (two years).

Students must earn a grade of C or higher in all courses used to meet major requirements.

Requirements for the Major (119-124 units)

Core Requirements (65 units)

ASTR 151	Principles of Astronomy (3)
ASTR 152	Principles of Astronomy: Laboratory (1)
BIOL 101-103	Principles of Biology I, II, III (5, 5, 4)
CHEM 101-103	General Chemistry I, II, III (5, 5, 5)
GEOL 150	Earth Revealed (4)
GEOL 155	Oceanography (4)
GEOL 158	Natural Disasters (4)
MATH 206	Calculus I: Differentiation (4)
MATH 207	Calculus II: Integration (4)
*PHYS 101-103	Physics (4, 4, 4)
* <i>PHYS 201-203 is required for Physics option students and recommended for Chemistry option students in lieu of PHYS 101-103.</i>	

Capstone Course

NS 495 Natural Science Field Services (4)

It is highly recommended that students take one of the following Upper Division Themes.

Theme A. Challenge of Change in the Developing World
Theme G. The Global Environment; Past, Present, and Future

Select One Option

Biology Option (55 units)

Required Courses (39 units)

CHEM 201	Quantitative Analysis (5)
CHEM 301ABC	Organic Chemistry (3, 3, 3)
CHEM 302AB	Organic Chemistry Laboratory (2, 2)
BIOL 300	Biometrics (4)
BIOL 340	General Genetics (4)
BIOL 360	General Ecology (4)
BIOL 380	Cell Biology (4)
MICR 200A	General Microbiology (5)

Electives (12 units)

Upper division courses selected with approval of adviser.

Upper Division Writing Requirement (4 units)

BIOL 320	Writing for Biologists (4)
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Chemistry Option (51-52 units)

Required Courses (30 units)

CHEM 201	Quantitative Analysis (5)
CHEM 301ABC	Organic Chemistry (3, 3, 3)
CHEM 302AB	Organic Chemistry Laboratory (2, 2)
CHEM 411	Fundamentals of Physical Chemistry (4)
CHEM 435	Introduction to Biochemistry (4)
MATH 208	Calculus III: Sequences, Series, and Coordinate Systems (4)

Electives (10-11 units)

Select three courses.

CHEM 318	Introduction to Inorganic Chemistry (3)
CHEM 463	Biomedical Microanalysis (4)
CHEM 480	History of Chemistry (4)
PHYS 306	Modern Physics (3)

Electives (8 units)

Take an additional 8 units of upper division electives selected with approval of adviser.

Upper Division Writing Requirement (3 units)

CHEM 360 Writing for Chemists (3)

Geoscience Option (51 units)**Required courses (32 units)**

GEOG 410 Weather and Climate (4)
 GEOL 201 Elementary Mineralogy (6)
 GEOL 203 Introductory Petrology (2)
 GEOL 252 Historical Geology (4)
 GEOL 321 Geology of Southern California (4)
 GEOL 350 Evolution of the Universe and Earth (4)
 GEOL 360 Geological Mapping (4)
 GEOL 372 Computers in Geology (4)

Electives (15 units)

Upper division courses selected with approval of adviser

Upper Division Writing Requirement (4 units)

Take one course as specified by the Department of Geological Sciences.

Physics Option (50 units)**Required courses (19 units)**

MATH 208 Calculus III: Sequences, Series, and Coordinate Systems (4)
 MATH 209 Calculus IV: Several Variables (4)
 PHYS 204 General Physics (4)
 PHYS 205 General Physics (4)
 PHYS 306 Modern Physics (3)

Electives (28 units)

Upper division courses selected with approval of adviser. A minimum of 16 units must be in physics. At least one laboratory course must be included.

Upper Division Writing Requirement (3 units)

CHEM 360 Writing for Chemists (3)

The Credential Program

The following program has been approved by the California Commission on Teacher Credentialing as satisfying the subject matter requirements of the Single Subject Teaching Credential in Science. Students should consult both the coordinator, through the Department of Physics and Astronomy, and a credential adviser in the Charter School of Education. Refer to the **Charter School of Education** section in the **Academic Programs: School-based and Universitywide** chapter of this catalog for regulations governing all teaching credential programs.

Single Subject Credential in Natural Science (104-107 units)**Core Requirements (65 units)**

Same as core requirements for the Bachelor of Science Degree in Natural Science.

Capstone Course (4 units)

NS 495 Natural Science Field Studies (4)

Select One Option**Biology Option (36 units)****Required Courses (24 units)**

BIOL 300 Biometrics (4)
 BIOL 340 General Genetics (4)
 BIOL 360 General Ecology (4)
 BIOL 380 Cell Biology (4)
 CHEM 301A Organic Chemistry (3)
 MICR 200A General Microbiology (5)

Electives (12 units)

Upper division courses selected with approval of adviser.

Chemistry Option (38 units)**Required courses (30)**

CHEM 201 Quantitative Analysis (5)
 CHEM 301ABC Organic Chemistry (3, 3, 3)
 CHEM 302AB Organic Chemistry Laboratory (2, 2)
 CHEM 411 Fundamentals of Physical Chemistry (4)
 CHEM 435 Introduction to Biochemistry (4)
 MATH 208 Calculus III: Sequences, Series, and Coordinate Systems (4)

Electives (8 units)

Courses selected with approval of adviser. For students pursuing the B.S. degree in Natural Science, these should be upper division courses.

Geoscience Option (36 units)**Required Courses (28 units)**

GEOG 410 Weather and Climate (4)
 GEOL 201 Elementary Mineralogy (6)
 GEOL 203 Introductory Petrology (2)
 GEOL 252 Historical Geology (4)
 GEOL 321 Geology of Southern California (4)
 GEOL 360 Geological Mapping (4)
 GEOL 372 Computers in Geology (4)

Electives (8 units)

Take upper division courses with adviser approval.

Physics Option (35 units)**Required Courses (19 units)**

MATH 208 Calculus III: Sequences, Series, and Coordinate Systems (4)
 MATH 209 Calculus IV: Several Variables (4)
 PHYS 204 General Physics (4)
 PHYS 205 General Physics (4)
 PHYS 306 Modern Physics (3)

Electives (16 units)

Upper division courses selected with approval of adviser. Please refer to department sections for course descriptions.

List of Courses - Undergraduate Level

Courses in Natural Science (NS)

Upper Division Courses

461 Topics in Physical Science Content and Pedagogy (4)

Prerequisite: Admission to the MA program in Education, Option in Elementary Teaching, Area of Concentration, Science Education. Topics in physical science are presented that illustrate both content and pedagogy appropriate for K-6 teachers. (Lecture 3 hours, activity 2 hours).

462 Topics in Life Science Content and Pedagogy (4)

Prerequisite: Admission to the MA degree in Education, Option in Science Education. Topics in life science are presented that have appropriate science and pedagogy for K-6 teachers. (Lecture 3 hours, activity 2 hours).

495 Natural Science Field Studies (4)

Prerequisites: Completion of Natural Science core requirements and adviser approval. Interdisciplinary application of the concepts of science for field and laboratory studies of the physical and biological environments. Lecture 2 hours, Laboratory 6 hours.

Courses in Physical Science (PSCI)

Lower Division Courses

180 Nature of Physical Science (4)

Primarily for students preparing for a multiple subject credential. Interdisciplinary approach to basic concepts in chemistry, geology, and physics. Topics illustrated by activities and demonstrations. No student may receive credit for both PSCI 180 and PSCI 185. Lecture 3 hours, activity 2 hours.

185 Everyday Science (4)

Basic and selected topics in physical and chemistry made real and understandable through demonstrations and active participation in measurements. Lecture 3 hours, activity 2 hours continuous with lecture. Students may not receive credit for both PSCI 180 and PSCI 185.

Department of

Nursing

School of Health and Human Services

DEPARTMENT OFFICE

Simpson Tower F417

Phone: (323) 343-4700

E-mail: nursing@cslanet.calstatela.eduWebsite: <http://www.calstatela.edu/dept/nursing/index.htm>

The faculty in the Department of Nursing believe that nursing is a health care profession which systematically assists patients/clients to achieve health or health-related goals. The focus of nursing is on a health promotion system of care and nurses provide health care for individuals, families and communities. Further, the faculty believes that students, endowed with the capacity for self-direction, are responsible for their own learning and self-development.

The nursing curriculum prepares nurses for professional careers in the maintenance and promotion of health and in supportive, preventive, therapeutic, and restorative nursing care for individuals, families, and communities in institutional and community-based settings. Students who complete the undergraduate program will have acquired knowledge and skills specific to generalized professional nursing practice and will be qualified to assume leadership roles. Students who complete the graduate program will be prepared to function in advanced nursing practice roles as nurse practitioners, clinical nurse specialists, or case managers or in nursing administration or education roles.

The Faculty

Professors: Marlohn Balas, Beverly R. Bigler, Loretta Birkhead, Randy M. Caine, Evelyn Ruiz Calvillo, Linda LaPlante Fahey, Eleanor Ferguson-Marshalleck, Marilyn Friedman, Virginia H. Hunter, Christine Pollack Latham, Judith L. Papenhausen (*Chair*), Barbara Peterson Sinclair, Diane Vernon, Rhea P. Williams, DeAnn Marie Young.

Associate Professor: Jung Kim Miller.

Assistant Professor: Lorie H. Judson

Emeriti: Evelyn Malkin Barclay, Henry Etta Brown Blackmon, Miriam M. Blomquist, Sarah P. Farnham, Marlene Farrell, Jo Ann Johnson, Eloise M. King, Wanda L. King, Marilynn A. Lemon, Irene M. Molloy, Freda V. O'Bannon-Lemmi, Helen M. O'Connell, Marjorie Elaine O'Leary, S. Winifred Utz, Ruth R. Wu.

Undergraduate Programs

Bachelor of Science Degree

The professional nursing curriculum leads to the Bachelor of Science degree with a major in Nursing. The undergraduate program is accredited by the California Board of Registered Nursing and the National League for Nursing. Some courses are open to non-majors who may find one or more courses helpful in achieving their own professional or personal goals.

Admission to the Program

The program consists of two pathways to the degree. One is the basic program in which students are admitted to lower division nursing following completion of prerequisite courses. The second is the R.N. transfer program in which students transfer from community colleges with an Associate of Arts or Associate of Science in Nursing, or from an NLN accredited Diploma Program and have a California R.N. License. These students are admitted to upper division nursing.

General Information

Students in the nursing program must carry malpractice insurance, personal health insurance, and workers' compensation when required by a clinical agency. Low-cost insurance is available for basic students through the Student Nurses Association of California and through professional organizations for registered nurses or through many independent companies. Nursing students must have a valid California driver's license and access to an automobile covered by appropriate automobile insurance. Prior to entering the first clinical lab, students must have a current CPR card, a physical

examination including Mantoux skin test or chest x-ray, if indicated, and proof of immunity to rubella and hepatitis B and other specified infectious diseases.

Additional immunizations may be necessary if required by clinical agencies. Annual renewal of CPR certification, an annual physical examination and Mantoux skin test or chest x-ray, if indicated, will be required. Information about clinical dress and picture identification regulations can be found in the undergraduate student handbook.

Departmental Regulations

- Students in the Nursing major must maintain good academic standing and attain grades of C or better in all nursing courses and in all natural and social science courses prerequisite or corequisite to the major. Nursing courses and prerequisite science courses for which the student earns less than a grade of C may be repeated only once, and then with instructor consent. To meet the requirement of continuing satisfactory performance, students on academic probation are not permitted to enroll in a nursing course until the probation has been removed.

- Students may not enroll in any course that requires other nursing prerequisites unless the prerequisite courses are completed with grades of C or better.
- Basic nursing students must take a diagnostic readiness test for the R.N. licensure examination in NURS 487.

Required Prerequisites (37 units)

The following courses are prerequisite to the Nursing major:

BIOL 200AB	Human Anatomy and Physiology I, II (5, 5)
CHEM 151	Fundamentals of Chemistry I, (5)
ENGL 101	Composition I (4)
*MICR 201	Microbiology for Health Related Sciences (4)
*MICR 202	Microbiology Laboratory for Health Related Sciences (2)
PSY 150	Introduction to Psychology (4)
SPCH 150	Oral Communication (4)

Completion of one course meeting the general education requirement in critical thinking:

PHIL 160, 250
POLS 155, or
SPCH 176

*Students entering with 4 or more semester units (6 or more quarter units) of credit from an accredited college for a course including laboratory satisfy this requirement by transfer credit.

Requirements for the Major (100-114 units)

The basic program requires a total of 198 units for the degree, including 113-114 units in required courses in nursing and related fields. The R.N. transfer program requires a total of 189 units for the degree, including 100-101 units in required courses in nursing and related fields. See **Undergraduate Studies: General Information** chapter for details about General Education and other requirements that constitute the units outside the major.

Required in Related Fields (15-20 units)

ANTH 444	Medical Anthropology (4)
NTRS 317	Fundamentals of Human Nutrition (3) or
NTRS 250	Human Nutrition (4)
**PSY 160	Psychology of Developing Person (4)
SOC 201	Principles of Sociology (4)

A statistics course which includes inferential statistics

**R.N. Transfer Students are exempt

Required in Nursing (85-94 units)*

Lower Division Required Courses (43 units)

NURS 210	Introduction to Nursing Process and Skills (3)
NURS 211	Nursing Process and Skills Laboratory (4)
NURS 214	Introduction to the Art and Science of Nursing (4)
NURS 215	Clinical Introduction to Professional and Clinical Practice Issues (1)
NURS 216	Nursing Care of Women, Childbearing Families and Infants (3)
NURS 217	Nursing Care of Women, Childbearing Families and Infants Lab (3)
NURS 220	Nursing Care of Children (3)
NURS 221	Nursing Care of Children Clinical Laboratory (3)
NURS 222	Nursing Care of the Adult I (6)
NURS 223	Clinical Laboratory for Adults I (4)
NURS 224	Nursing Care of the Adult II (5)
NURS 225	Nursing Laboratory for Adults II (4)

Students must complete the natural science courses before beginning upper division courses. R.N. students may enroll in the last natural science course concurrent with the first quarter of 300-level nursing courses.

Upper Division Required Courses (42-51 units)

**NURS 300	Nursing Care of the Adult III (4)
**NURS 301	Clinical Laboratory for Adults III (4)
**NURS 318	Nursing Care of Psychiatric Patients (3)
**NURS 319	Psychiatric Clinical Nursing Lab (3)
NURS 346	Family Nursing (4)
**NURS 348A	Development for Professional Practice (3)
**NURS 349A	Development for Professional Practice Lab (1)
**NURS 348B	Development for Professional Practice (3)
**NURS 349B	Development for Professional Practice Lab (1)
NURS 372	Health Assessment and Promotion Across the Life Span (3)
NURS 373	Health Assessment and Promotion Across the Life Span Laboratory (2)
NURS 393	Home Health Care Laboratory (2)
NURS 394	Nursing Concepts in Health Promotion, Prevention, and Treatment Adherence (4)
**UNIV (NURS) 398	Cooperative Education (2)
NURS 470	Community Health Assessment (3)
NURS 471	Community Health Assessment Lab (3)
NURS 476	Nursing and the Health Care System (3)
**NURS 487	Transition to Professional Practice (1)
NURS 490	Introduction to Nursing Research (4)
NURS 496	Nursing Case Management of Vulnerable Populations (3)
NURS 497	Nursing Case Management of Vulnerable Populations Lab (3)

* If after completion of all University and Nursing major requirements additional units are required for graduation, it is recommended that students complete up to six units in Nursing elective courses.

** Required only of basic students.

*** Required only of R.N. transfer students.

Certificate Program: Obstetrics-Gynecology Nurse Practitioner

The Department of Nursing offers a credit certificate program designed to prepare registered nurses to assume expanded roles in the delivery of primary health care to ambulatory women. Emphasis is on the recognition of the normal—and thus the abnormal—and the appropriate management of each within a team approach. Graduates of the program may be employed by medical groups, colleges and universities, and other health care providers in the private and public sectors of the community.

The program requires completion of 24 units of upper division credit course work. Admission to the program requires formal application to the department; a screening interview with the admission committee; academic work and employment experience, which must at least include an associate degree in Nursing, a minimum 2.5 grade point average in work completed at all institutions of higher education; current licensure as a registered nurse in the state of California; at least one year of nursing experience or the equivalent; and departmental approval.

In addition to the 24 units of required upper division course work, students must complete 26 units of professional course work through the Department of Nursing's Institute of Nursing to qualify for the certificate. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate

Required Credit Courses (24 units)

- NURS 432 Assessment and Management of Obstetric Health (4)
- NURS 433 Obstetric Health Care Laboratory for Nurse Practitioners (4)
- NURS 436 Assessment and Management of Gynecologic Health (4)

- NURS 437 Gynecological Health Care Laboratory for Nurse Practitioners (4)
- NURS 472 Physical Assessment for Nurse Practitioners (4)
- NURS 473 Physical Assessment Laboratory for Nurse Practitioners (4)

Required Professional Course Work (26 units)

(See advisor for details)

Graduate and Postbaccalaureate Programs

Master of Science Degree

The Master of Science degree in Nursing provides advanced study in selected areas. A total of 45-73.5 units in nursing is required depending on the option chosen. Students must select one of the following options.

- **Acute Care Nurse Practitioner: Adult Cardiopulmonary Option (minimum 72.5 units)**
- **Acute Care Nurse Practitioner: Pediatric Option (minimum 73.5 units)**
- **Clinical Nurse Specialization: Psychiatric/Mental Health Option (54 units)**
- **Nurse Case Manager: Adult Care Option (minimum 54 units)**
- **Nursing Administration Option (45 units)**
- **Nursing Education Option (45 units)**
- **Nurse Practitioner: Adult Option (minimum 69 units)**
- **Nurse Practitioner Pediatric Option (minimum 65 units)**

Every student is required to take 14 units of graduate core courses, 7-24 units of advanced nursing practice core courses (depending on option), and required specialty courses.

Students seeking the credential to teach nursing in community colleges should consult the Coordinator of Community College Education in the Charter School of Education and an adviser in the Department of Nursing.

The Master of Science degree in Nursing is accredited by the National League for Nursing.

Admission to Accelerated Master's Program

Track I. Admission Requirements for RNs with a Non-Nursing Baccalaureate

- A baccalaureate from an accredited institution with a major other than nursing;
- An A.A. or A.S. degree in Nursing from an accredited college or an NLN-accredited diploma program;
- Completion of current B.S. degree in Nursing course Prerequisites;
- Eligibility for University admission in conditionally classified graduate standing;
- A minimum 2.75 grade point average in the last 90 quarter units attempted; and
- Current licensure to practice nursing in California and malpractice insurance.

To continue in the accelerated program, students must:

- Complete one year of clinical employment as an RN before they enroll in NURS 470/471 and
- Maintain a *minimum B* (3.0) grade point average in and complete required upper division nursing courses to qualify for classified graduate standing.

Requirements for Second Baccalaureate

A bachelor's degree is conferred in this accelerated master's degree program only to students who fulfill current general education requirements for a second bachelor's degree in addition to the nursing major undergraduate requirements

Track II. Admission Requirements for RNs without a Baccalaureate

- An A.A. or A.S. degree in nursing from an accredited college or an NLN-accredited diploma program with a minimum 2.75 grade point average
- Completion of current B.S. degree in Nursing course Prerequisites
- Current license to practice nursing in California; and malpractice insurance for professional nursing practice
- To qualify for classified graduate standing, students pursuing this accelerated program must:
- Complete one year of clinical employment as an RN
- Complete all required baccalaureate nursing courses
- Maintain a minimum *B* (3.0) grade point average in required upper division nursing courses

Undergraduate Requirements for Both Accelerated Tracks:

RNs with a Non-Nursing Baccalaureate and RNs without a Baccalaureate

A total of 186 units is required for the Bachelor of Science degree in Nursing, which is conferred concurrently with the Master of Science degree in Nursing*.

**If after completion of all university and Nursing major requirements additional units are required for graduation, it is recommended that students complete up to six units in Nursing elective courses. See the Undergraduate Studies: General Information chapter for details about General Education and other requirements that constitute the units outside the major.*

Prerequisites (33 units)

The following courses are Prerequisites to the Nursing major:

BIOL	200AB	Human Anatomy and Physiology I, II (5, 5)
CHEM	151	Fundamentals of Chemistry I (5)
ENGL	101	Composition I (4)

Prerequisites (cont'd)

**MICR 201	Microbiology for Health Related Sciences (4)
**MICR 202	Microbiology Laboratory for Health Related Sciences (2)
SPCH 150	Oral Communication (4)
PSY 150	Introduction to Psychology (4)

***Students entering with 4 or more semester units (6 or more quarter units) of credit from an accredited college for a course including laboratory satisfy this requirement by transfer credit.*

Required in Related Fields (15-16 units)

ANTH 444	Medical Anthropology (4)
NTRS 250	Human Nutrition (4) or
NTRS 317	Fundamentals of Human Nutrition (3)
SOC 201	Principles of Sociology (4) and
Completion of a statistics course within the past 7 years (four or more units which included inferential statistical content).	

Required in Nursing (78 units)**Lower Division Required Courses (43 units)**

Lower division required courses are met by 43 units of transfer credit granted by the Department of Nursing.

Upper Division Required Courses (35 units)

NURS 346	Family Nursing (4)
NURS 348A	Development for Professional Practice (3)
NURS 349A	Development for Professional Practice Lab (1)
NURS 372	Health Assessment and Health Promotion Across the Life Span (3)
NURS 373	Health Assessment and Health Promotion Across the Life Span Lab (2)
NURS 393	Home Health Care Laboratory (2)
NURS 394	Nursing Concepts in Health Promotion, Prevention Treatment Adherence (4)
NURS 470	Community Health Assessment (3)
NURS 471	Community Health Assessment Lab (3)
NURS 490	Introduction to Nursing Research (4)
NURS 496	Nursing Case Management of Vulnerable Populations (3)
NURS 497	Nursing Case Management of Vulnerable Populations Lab (3)

Admission to the Master's Program

Applicants must fulfill the following prerequisites and criteria:

- Equivalent of requirements for Bachelor of Science degree in Nursing from an NLN accredited program in effect at the time of admission as a graduate;
- Minimum *B* (3.0) grade point average in upper division nursing courses or permission of the departmental graduate studies committee;
- 2.75 grade point average in the last 90 quarter units attempted;
- Completion of a statistics course within the past 7 years (four quarter units or more which included inferential statistical content);
- NURS 490 or equivalent within the past 7 years;
- Malpractice insurance for professional nursing.

Requirements for the Master's Degree (45–73.5 units)

A total of 45–73.5 units is required with at least half of the units in 500-level courses. The total units consist of a required core of 14 units and 31-59.5 units in an Option.

Required Core (14 units)

Required in addition to units specified for <u>all</u> options	
NURS 500	Qualitative Nursing Research Evaluation (2)
NURS 590	Quantitative Nursing Research Methods (4)
NURS 592	Theoretical Basis of Nursing Research and Practice (4)
NURS 594	Decision-Making in Nursing Health Care Policy (4)

Options (31-59.5 units)

Select one of following options:

Nursing Administration Option (31 Units)**Required Advanced Practice Courses (7 units)**

NURS 524	Care of Vulnerable Populations (4)
NURS 595	Advanced Field Study (3)

Required Option Courses (7 units)

NURS 562	Human Resources Utilization in Health Care Organizations (2)
NURS 564	Seminar: Health Care Administration (2)
NURS 595	Advanced Field Study (3)

Electives: (12-17 units)

Dependent upon Thesis (5 units) or Comprehensive Examination (0 units) selection.

Nursing Education Option (31units)**Required Advanced Practice Courses (9 units)**

NURS 566A	Advanced Pathophysiology (4)
NURS 524	Care of Vulnerable Populations (4)
NURS 595	Advanced Field Study (1)

Required Option Courses (12 units)

NURS 560AB	Development of Educational Programs for Nursing (3,3)
NURS 595	Advanced Field Study (3,3)
(Must be taken with NURS 560AB)	

Electives: (5-10)

Dependent upon Thesis (5 units) or Comprehensive Examination (0 units) selection.

Advanced Nursing Practice Option: Nurse Case Manager: Adult Care (Minimum 40 units)**Required Advanced Practice Courses (21 Units)**

NURS 502	Role Development of the Advanced Practice Nurse (2)
NURS 524	Care of Vulnerable Populations (4)
NURS 528	Advanced Pharmacology (4)
NURS 566A	Advanced Pathophysiology (4)
NURS 572A	Advanced Health Assessment and Health Promotion (4)
NURS 573A	Advanced Health Assessment and Health Promotion Laboratory (1)
NURS 595	Advanced Field Study (2)

Required Option Courses (16 units)

NURS 506A	Advanced Nurse Case Management Strategies I (4)
NURS 506B	Advanced Nurse Case Management Strategies II (4)
NURS 595	Advanced Field Study (4,4) (must be taken with NURS 506AB)

Electives: (3 units)

THESIS: *If selected this adds an additional 5 units to the program.*

Advanced Nursing Practice Option: Psychiatric/Mental Health Clinical Nurse Specialist (35-40 Units)

Required Advanced Practice Courses (9 units)

NURS 502	Role Development of the Advanced Practice Nurse (2)
NURS 524	Care of Vulnerable Populations (4)
NURS 595	Advanced Field Study (3) (Must be taken with NURS 524)

Required Option Courses (18 units)

NURS 542ABC	Seminar: Psychiatric/Mental Health (2,2,2,)
NURS 595	Advanced Field Study (4,4,4,) (Must be taken with NURS 542ABC)

Electives: (8-13 units)

Dependent upon thesis (5 units) or Comprehensive Examination (0 units) selection

Nurse Practitioner Options

Required Advanced Nursing Practice Core Courses: (24 units)

All Nurse Practitioner Options require the inclusion of these 24 units of course work.

NURS 502	Role Development of the Advanced Practice Nurse (2)
NURS 524	Care of Vulnerable Populations (4)
NURS 525	Vulnerable Populations Practicum (1,1)
NURS 528	Advanced Pharmacology (4)
NURS 566A	Advanced Pathophysiology (4)
NURS 572A	Advanced Health Assessment and Health Promotion (4)
NURS 573A	Advanced Health Assessment and Health Promotion Laboratory (1)
NURS 573B	Advanced Health Assessment and Health Promotion Practicum (3)

Nurse Practitioner: Pediatric Option (Minimum of 51 units)

Required Advanced Nursing Practice Core Courses (24 units)

Required Option Courses (25 units)

NURS 498	Advanced Cooperative Education (1)
NURS 522A	Primary Care of Children with Acute Health Problems (4)
NURS 522B	Primary Care of Children with Chronic Health Problems (4)
NURS 522C	Primary Care of Adolescents (2)
NURS 523A	Primary Care Practicum: Children with Acute Illness (3)
NURS 523B	Primary Care Practicum: Children with Chronic Illness (3)
NURS 523C	Primary Care Practicum: Adolescents (3)
NURS 529	Advanced Pediatrics Clinical Practicum (3)
NURS 572B	Developmental Assessment and Health Promotions (2)

Electives: (2 units)

Thesis: *If selected, this adds an additional 5 units to the program*

Nurse Practitioner: Adult Option (Minimum 55 units)

Required Advanced Nursing Practice Core Courses (24 units)

Required Option Courses (27 units)

NURS 498	Advanced Cooperative Education (1)
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Required Option Courses (cont'd)

NURS 512A	Primary Care of Adults with Acute Health Problems (4)
NURS 512B	Care of Aging Adults (2)
NURS 513A	Primary Care of Adults with Acute Health Problems Practicum (4)
NURS 513B	Care of Aging Adults Practicum (4)
NURS 516A	Care of Adults with Chronic Cardiopulmonary Problems (3)
NURS 517	Practicum: Advanced Care of Adults with Chronic Health Problems (4)
NURS 520	Seminar: Advanced Care of Adults with Chronic Health Problems (3)
NURS 522C	Primary Care of Adolescents (2)

Electives: (4 units)

THESIS: *If selected, this adds an additional 5 units to the program.*

Acute Care Nurse Practitioner: Adult Cardiopulmonary Option (Minimum 58.5 units)

Required Advanced Nursing Practice Core Courses (24 units)

Required Option Courses: (30.5 units)

NURS 498	Advanced Cooperative Education (0.5)
NURS 514A	Monitoring and Therapeutics for Cardiopulmonary Patients (4)
NURS 514B	Management of Adults with Cardiopulmonary Problems (5)
NURS 515A	Advanced Therapeutics Practicum (4)
NURS 515B	Cardiopulmonary Acute Care Nurse Practitioner Practicum (4)
NURS 516A	Care of Adults with Chronic Cardiopulmonary Problems (3)
NURS 516B	Care of Adults with Chronic and Acute Episodic Health Care Problems (4)
NURS 517	Care of Adults with Chronic Health Problems Practicum (4)
NURS 566B	Cardiopulmonary Physiology and Patho Physiology for Advanced Practice Nurses (2)

Electives: (4 units)

THESIS: *If selected, this adds an additional 5 units to the program.*

Acute Care Nurse Practitioner: Pediatric Option (Minimum 59.5 units)

Required Advanced Nursing Practice Core Courses (24 Units)

Required Option Courses: (33.5 units)

NURS 498	Advanced Cooperative Education (0.5)
NURS 522A	Primary Care of Children with Acute Health Problems (4)
NURS 530A	Management of the Child with Cardiopulmonary Hematology/Oncology Problems (5)
NURS 530B	Management of the Child with Gastrointestinal/Renal Problems (4)
NURS530C	Management of the Child with Trauma/Burns and Neurological Problems (4)
NURS 531A	Cardiopulmonary/Hematology/Oncology Pediatric Acute Care NP Practicum (4)
NURS 531B	Gastrointestinal/Renal Pediatric Acute Care NP Practicum (4)

Required Option Courses: (cont'd)

NURS 531C	Neurological/Trauma/ Burns Pediatric Acute Care NP Practicum (4)
NURS 532	Child and Family Adaptation to Illness (2)
NURS 572B	Developmental Assessment and Health Promotion (2)

Electives: (2 units)

Thesis: *If selected, this adds an additional 5 units to the program.*

Comprehensive Examination, Thesis or Project (0, 5 units)

NURS 596	Comprehensive Examination (0 units) or
NURS 597	Graduate Research (2) <i>plus</i>
NURS 599	Thesis or Project (3)

Students who select the comprehensive examination (NURS 596) must complete all required nursing courses prior to taking exam and must comply with school and departmental requirements.

Students who elect the thesis project option (NURS 599) must complete 2 units of NURS 597 prior to the required 3 units of NURS 599 and must comply with University, school and department policies and procedures regarding theses.

Post-Master's Certificate Programs for Nurse Practitioners

The Department of Nursing offers four post-master's Nurse Practitioner Certificate Programs for nurses who have a master's degree in Nursing and who would like to take existing courses within the Master of Science degree in Nursing. At the completion of the course work, these individuals will qualify to apply to the California Board of Registered Nursing for state certification as nurse practitioners and are eligible to sit for a National Certification Examination so they can function as nurse practitioners in all states.

Admission Requirements for all Nurse Practitioner Programs:

- Current California Registered Nurse License
- Master's degree in Nursing (MSN or MN)
- Malpractice insurance for professional nursing
- Recent physical assessment course
- Successful completion of application process

Specific Requirements for Post-Master's Nurse Practitioner Certificate Programs**Required Advanced Nursing Practice Core Courses (24 units)**

(Required for *all* post-master's nurse practitioner certificates)

NURS 502	Role Development of the Advanced Practice Nurse (2)
NURS 524	Care of Vulnerable Populations (4)
NURS 525	Vulnerable Populations Practicum (1,1)
NURS 528	Advanced Pharmacology (4)
NURS 566A	Advanced Pathophysiology (4)
NURS 572A	Advanced Health Assessment and Health Promotion (4)
NURS 573A	Advanced Health Assessment and Health Promotion Laboratory (1)
NURS 573B	Advanced Health Assessment and Health Promotion Practicum (3)

Pediatric Acute Care Nurse Practitioner (ACNP) Certificate

The post-master's Pediatric Acute Care Nurse Practitioner (ACNP) Certificate Program is offered for nurses who have a master's degree in nursing and who would like to take existing courses within the Pediatric Acute Care Nurse Practitioner option within the Master's of Science degree in Nursing.

Additional Admission Requirements

1. One year clinical practice working with children in an acute care setting.
2. Pediatric Advanced Life Support (PALS)

Requirements for the ACNP Certificate (57.5 units)

Students qualify for the post-master's certificate after they have successfully completed the specialty program courses with a 3.0 or higher GPA. This program consists of 57.5 units of theory and clinical practice in the following two areas: 1) seminar courses 39 units; and 2) clinical practice courses, 18.5 units. They will be qualified to sit for a National Certification examination and to apply for nurse practitioner certification from the California Board of Registered Nursing.

Required Advanced Nursing Practice Core Courses (24 units)**Required Option Courses (33.5 units)**

NURS 498	Advanced Cooperative Education (0.5)
NURS 522A	Primary Care of Children with Acute Health Problems (4)
NURS 530A	Management of the Child with Cardiopulmonary/Hematology/Oncology Problems (5)
NURS 530B	Management of the Child with Gastrointestinal/Renal Problems (3)
NURS 530C	Management of the Child with Trauma/Burns/Neurological Problems (4)
NURS 531A	Cardiopulmonary/Hematology/Oncology Pediatric Acute Care Nurse Practitioner Practicum (4)
NURS 531B	Gastrointestinal/Renal Pediatric Acute Care Nurse Practitioner Practicum (4)
NURS 531C	Neurological/Trauma/Burns Pediatric Acute Care Nurse Practitioner Practicum (4)
NURS 532	Child and Family Adaptation to Illness (2)
NURS 572B	Developmental Assessment and Health Promotion (2)

Acute Care Nurse Practitioner (ACNP): Adult Cardiopulmonary Specialty Certificate

The post-master's Acute Care Nurse Practitioner (ACNP): Adult Cardiopulmonary Specialty certificate program is offered for nurses who have a master's degree in nursing and who would like to take the existing courses within the Acute Care Nurse Practitioner: Adult Cardiopulmonary Program, a specialty within the Master of Science degree in Nursing.

Additional Admission Requirements

- One year clinical practice working with acutely ill adults with cardiopulmonary disorders
- Advanced Cardiac Life Support Certification
- Critical Care Nurse Certification (CCRN)

Requirements for the Certificate (54.5 units)

Students qualify for the post-master's certificate after they have successfully completed the specialty program courses with a 3.0 or higher GPA. This program consists of 54.5 units of theory and clinical practice in the following two areas: 1) seminar courses 36 units; and 2) clinical practice courses, 18.5 units. They will then be qualified to sit for the National Professional Adult ACNP certification examination and to apply for nurse practitioner certification from the California Board of Registered Nursing.

Required Advanced Nursing Practice Core Courses (24 units)**Required Option Courses (30.5 units)**

NURS 498	Advanced Cooperative Education (0.5)
NURS 514A	Monitoring and Therapeutics for Cardiopulmonary Patients (4)
NURS 514B	Management of Adults with Cardiopulmonary Problems (5)
NURS 515A	Advanced Therapeutics Practicum (4)
NURS 515B	Cardiopulmonary Acute Care Nurse Practitioner Practicum (4)
NURS 516A	Care of Adults with Chronic Cardiopulmonary Problems (3)
NURS 516 B	Care of Adults with Chronic and Acute Episodic Health Problems (4)
NURS 517	Care of Adults with Chronic Health Problems Practicum (4)
NURS 566B	Cardiopulmonary Physiology and Pathophysiology for Advanced Practice Nurses (2)

Adult Nurse Practitioner Specialty (ANP) Certificate

The post-master's Adult Nurse Practitioner certificate program is offered for nurses who have a master's degree in nursing and who would like to take the existing courses within Adult Nurse Practitioner (ANP) option, a specialty within the Master of Science degree in Nursing.

Additional Admission Requirement

One year clinical practice working with adults

Requirements for the Certificate (51 units)

Students qualify for the post-master's certificate after they have successfully completed the specialty program courses with a 3.0 higher GPA. This program consists of 51 units of theory and clinical practice in the following two areas: 1) seminar courses 32 units; and 2) clinical practice courses 19 units. They will then be qualified to sit for the National Professional Adult Nurse Practitioner certification examination and to apply for nurse practitioner certification from the California Board of Registered Nursing.

Required Advanced Nursing Practice Core Courses (24 units)**Required Option Courses (27 units)**

NURS 498	Advanced Cooperative Education (1)
NURS 512A	Primary Care of Adults with Acute Health Problems (4)
NURS 512B	Care of Aging Adults (2)
NURS 513A	Primary Care of Adults with Acute Health Practicum (4)
NURS 513B	Care of Aging Adults Practicum (4)
NURS 516A	Care of Adults with Chronic Cardiopulmonary Problems (3)
NURS 517	Practicum: Advanced Care of Adults with Chronic Health Problems (4)

Required Option Courses (cont'd)

NURS 520	Seminar Advanced Care of Adults with Chronic Health Problems (3)
NURS 522C	Primary Care of Adolescents (2)

Pediatric Nurse Practitioner (PNP) Specialty Certificate

The post-master's Pediatric Nurse Practitioner certificate program is offered for nurses who have a master's degree in nursing and who would like to take the existing courses within Pediatric Nurse Practitioner (PNP) option, a specialty within the Master of Science degree in Nursing.

Additional Admission Requirement

One year clinical practice working with children

Requirements for the Certificate (49 units)

Students qualify for the post-master's certificate after they have successfully completed the specialty program courses with a 3.0 higher GPA. This program consists of 49 units of theory and clinical practice in the following two areas: 1) seminar courses 30 units; and 2) clinical practice courses, 19 units. They will be qualified to sit for the National Professional Pediatric Nurse Practitioner certification examination and to apply for nurse practitioner certification from the California Board of Registered Nursing.

Required Advanced Nursing Practice Core Courses (24 units)**Required Option Courses (25 units)**

NURS 498	Advanced Cooperative Education (1)
NURS 522A	Primary Care of Children with Acute Health Problems (4)
NURS 522B	Primary Care of Children with Chronic Health Problems (4)
NURS 522C	Primary Care of Adolescents (2)
NURS 523A	Primary Care Practicum: Children with Acute Illness (3)
NURS 523B	Primary Care Practicum: Children with Chronic Illness (3)
NURS 523C	Primary Care Practicum: Adolescents (3)
NURS 529	Advanced Pediatrics Clinical Practicum (3)
NURS 572B	Developmental Assessment and Health Promotion (2)

Post-Master's Certificate Program for Nurse Case Manager: Adult Care

The Department of Nursing offers a post-master's certificate program for nurses who have a master's degree in nursing and who would like to take the existing courses within the Nurse Case Manager option, a specialty within the Master of Science degree in Nursing. At the completion of the course work in the Nurse Case Manager program, these students work as advanced practice nurses in institutional and community-based settings involved with providing better continuity of care and cost effectiveness across clinical settings.

Admission Requirements

1. Current California Registered Nurse License
2. Master's degree in Nursing (MSN or MN)
3. Malpractice insurance for professional nursing
4. One year clinical practice working with adults

Requirements for the Certificate (37 units)

Students qualify for the post-master's certificate after they have successfully completed the specialty program courses with a 3.0 or higher GPA. This program consists of 37 units of theory and clinical practice in the following two areas: 1) seminar courses 26 units; and 2) clinical practice courses, 11 units.

Required Advanced Practice Courses (21 units)

NURS 502	Role Development of the Advanced Practice Nurse (2)
NURS 524	Care of Vulnerable Populations (4)
NURS 528	Advanced Pharmacology (4)
NURS 566A	Advanced Pathophysiology (4)
NURS 572A	Advanced Health Assessment and Health Promotion (4)
NURS 573A	Advanced Health Assessment and Health Promotion Laboratory (1)
NURS 595	Advanced Field Study (2)

Required Option Courses (16 units)

NURS 506A	Advanced Nurse Case Management Strategies I (4)
NURS 506B	Advanced Nurse Case Management Strategies II (4)
NURS 595	Advanced Field Study (4,4) (must be taken with NURS 506AB)

**Health Services Credential:
School Nurse Services**

State of California credential requirements for a clear Health Services credential include a fifth year of study, completed after the baccalaureate. The fifth year consists of a minimum of 45 quarter units beyond the baccalaureate for a Professional Credential in Health Services for School Nurse. This program leads to certification as a school nurse for professional employment in California public schools.

School nurse candidates must be employed as a school nurse in the California public schools for two years full-time or the equivalent in part-time employment under the supervision of a credentialed school nurse. Candidates must request letters of recommendation from their immediate supervisors confirming employment and satisfactory performance. Candidates must also have a supervised, guided, and evaluated clinical practicum with a credentialed school nurse preceptor in elementary, secondary, and special education program settings with multicultural and multiethnic individuals.

Requirements for the Credential (45 units)**Required Courses (37–38 units)**

NURS 372	Health Assessment and Promotion Across the Life Span (3)
NURS 373	Health Assessment and Promotion Across the Life-Span Laboratory (2)
NURS 423	Nursing in School Health Programs Clinical Laboratory (6)
NURS 426	Nursing Management in Public Schools (4)
NURS 428	Nursing Assessment in Public Schools (4)
COMD 440	School Audiometry (4)
COUN 480	Fundamentals of Counseling (4) or
NURS 442	Assisting Strategies in Psychosocial Nursing (3) or
NURS 456	Crisis Theory: Mental Health Promotion (3)
EDSP 400	Foundations of Special Education (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition, and Tobacco (4)
HS 490	Administration of School Health Programs (3)

Required Electives (7-8 units)

Students select the remainder of the courses from at least two disciplines on the list below to allow flexibility in meeting individual professional needs and goals for their own specific public school nurse practice.

Selected Electives

ANTH	443, 444
ART	410
CHDV	420, 423, 425
COMD	400, 401, 402, 457
COUN	403, 405A, 406, 460
CRIM	439
EDAD	509, 510
EDIT	452, 453, 456
EDFN	438, 452
EDSP	408, 412, 430, 431AB, 440, 460, 462, 465, 515
HS	455
NTRS	413, 416
PHIL	491
PSY	403, 412A, 412B
SOC	425, 460, 482
SPCH	489
SW	456, 476

Four units selected from:

CHIN 100ABC **or** 101ABC **or**
SPAN 110

List of Courses (NURS) - Undergraduate Level

Lower Division Courses

210 Introduction to Nursing Process and Skills (3)

Prerequisites: BIOL 200B; CHEM 151; MICR 201, 202; ENGL 10; SOC 201; PSY 150; NTRS 250 or 317; and SPCH 150. Corequisites: NURS 211, 214, and 215. Introduction to nursing process concepts, documentation, and basic nursing skills. Basic physical assessment, comfort measures, medication administration, and performance of sterile and non-sterile procedures are included.

211 Nursing Process and Skill Laboratory (4)

Corequisites: NURS 210, 214, 215. Demonstration and practice of basic physical assessment and clinical skills, medication administration, and clinical application of nursing process concepts in simulated and actual clinical settings are included.

214 Introduction to the Art and Science of Nursing (4)

Prerequisites: PSY 150, ENGL 101, SPCH 150. Corequisites: NURS 210, 211, 215. Introduction to professional and clinical issues in nursing practice with a focus on coping with requirements of daily living during hospitalization.

215 Clinical Introduction to Professional and Clinical Practice Issues (1)

Prerequisites: ENGL 101, PSY 150, SPCH 150. Corequisites: NURS 210, 211, 214. Structured clinical activities and experiences focused on professional and caregiver role development.

216 Nursing Care of Women, Child-bearing Families and Infants (3)

Prerequisites: NURS 224, 225; SOC 201. Corequisite: NURS 217. Assessment and clinical management of women, childbearing families and infants.

217 Nursing Care of Women, Child-bearing Families and Infants Lab (3)

Prerequisites: NURS 224, 225. Corequisite: NURS 216. Nursing care of women, childbearing families, and infants based on analysis of self-care requirements.

220 Nursing Care of Children (3)

Prerequisites: NURS 224, 225. Corequisite: NURS 221. Nursing care of children emphasizing health promotion and common health disturbances.

221 Nursing Care of Children Clinical Laboratory (3)

Prerequisites: NURS 224, 225; SOC 201. Corequisite: NURS 220. Patient care experience with hospitalized children encountering common health disturbances.

222 Nursing Care of Adult I (6)

Prerequisites: NURS 210, 211, 214, 215. Corequisite: NURS 223. Clinical nursing interventions and rationale for the care of hospitalized adults experiencing fluid and electrolyte, metabolic, hematopoietic, cardiovascular and/or respiratory physiological dysfunction including care during the preoperative period.

223 Clinical Laboratory for Adults I (4)

Prerequisites: NURS 210, 211, 214, 215. Corequisite: NURS 222. Clinical nursing laboratory for adults in acute care settings who are experiencing fluid and electrolyte, metabolic, hematopoietic, cardiovascular and/or respiratory physiological dysfunction including care during the preoperative period.

224 Nursing Care for Adults II (5)

Prerequisites: NURS 222, 223. Corequisite: NURS 225. Clinical nursing interventions and rationale for the care of hospitalized adults experiencing musculoskeletal, renal, gastrointestinal, hepatobiliary, and/or oto-ophthalmic dysfunction including care during the perioperative period.

225 Clinical Laboratory for Adults II (4)

Prerequisites: NURS 222, 223. Corequisite: NURS 224. Clinical nursing laboratory for adults in acute care settings who are experiencing musculoskeletal, renal, gastrointestinal, hepatobiliary, and/or oto-ophthalmic dysfunction including care during the perioperative period.

254L,P Selected Topics in Nursing (1-6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students, as announced in *Schedule of Classes*. May be repeated for credit.

Upper Division Courses

300 Nursing Care of the Adult III (4)

Prerequisites: NURS 372, 373, 394. Corequisite: NURS 301. Advanced clinical nursing interventions, rehabilitation principles and leadership skills in the care of complicated hospitalized adults experiencing acute and chronic neurological, integumentary, neoplastic/immune and /or multisystem failure and dysfunction.

301 Clinical Laboratory for Adults III (4)

Prerequisites: NURS 372, 373, 394. Corequisite: NURS 300. Advanced clinical and leadership nursing laboratory for adults experiencing acute and chronic neurological, integumentary, neoplastic/immune, and/or multisystem failure and dysfunction in acute/rehabilitative care settings.

307 Physiology and Psychology of Violence and Aggression (4) (cross-listed as PSY 307)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychobehavioral approaches to violent individuals; analysis of and research support for understanding violence drawn from natural, medical, and behavioral sciences. **GE Theme B**

308 Psychophysiology of Substance Abuse and Violence (4) (cross-listed as HS 308)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Physiological effects of abused substance; examination of connection between substance abuse and violent behavior. **GE Theme B**

318 Nursing Care of Psychiatric Patients (3)

Prerequisites: NURS 224, 225. Corequisite: NURS 319. Introduction to nursing practice in a variety of psychiatric care settings caring for patients with problems in social and psychological functioning.

319 Psychiatric Clinical Nursing Lab (3)

Prerequisites: NURS 224, 225. Corequisite: NURS 318.

Clinical experience in a variety of settings implementing the nursing process in the area of adult patient/clients demonstrating deficits in social and psychological functioning.

330 Human Reproductive Health (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Physical health needs and issues, emphasizing the reproductive systems for women and men across the age span; overview of physiology, pathophysiology, diagnostic technologies, and therapeutic management of common health problems.

346 Family Nursing (4)

Pre-or corequisite: ANTH 344. Theoretical foundations of family nursing and its application to the nursing process with families; principles and concepts of patient education.

348A Development for Professional Practice (3)

Prerequisite: Transfer RN nursing students. Corequisite: NURS 349A. Socialization and development into professional nursing roles; focus on nursing process, the nurse as a professional, and selected issues in professional practice.

348B Development for Professional Practice (3)

Prerequisites: NURS 348A, 349A. Corequisite: NURS 349B. Socialization and development into professional nursing; focus on roles of the professional nurse as advocate, provider, and coordinator of care.

349A Development for Professional Practice Laboratory (1)

Prerequisites: Registered Nurse license, malpractice insurance. Corequisite: NURS 348A. Application of nursing process for professional practice within a self-care framework to patient care situation in clinical setting.

349B Development for Professional Practice Laboratory (1)

Prerequisite: NURS 348A, 349A. Corequisite: NURS 348B. Application of professional nursing roles (advocate, provider and coordinator of care) in the clinical care setting.

354L,P Selected Topics in Nursing (1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students, as announced in *Schedule of Classes*. May be repeated for credit.

355 Strategies for Preventing and Intervening in Family Violence and Abuse (4) (also crosslisted as SW 355)

Prerequisites: Completion of Basic Subjects (Block A) and one course in Block D. Major theories used to explain family violence; emphasis on preventing abuse and intervening with victims across the age span; social, policy, and legal issues.

GE Theme B

372 Health Assessment and Promotion Across the Life Span (3)

Prerequisites: Generic students: NURS 220, 221; RN transfer students: NURS 348A pre or corequisite: Co-requisite: NURS 373. Health assessment including history taking, physical examination and diagnostic testing; principles of health promotion across the life span and concepts of patient education.

373 Health Assessment and Promotion Across the Life Span Laboratory (2)

Prerequisites: Generic students: NURS 220, 221; RN transfer students: NURS 348A. Corequisite: NURS 372. Health assessment including history taking, physical examination and diagnostic testing, health promotion and patient education experiences in a variety of settings.

393 Home Health Care Laboratory (2)

Prerequisites: NURS 346, 372. Prerequisite or corequisite: NURS 394. Application of nursing knowledge and skills to care of individuals and families in home health care settings to promote, maintain, and/or restore health, treatment adherence, independence and adaptation.

394 Nursing Concepts in Health Promotion: Prevention, Treatment and Adherence (4)

Prerequisites: NURS 346, 372, 373. The development of strategies for assisting various patient populations with self-care actions focused on promoting health, facilitating treatment adherence, coping and adaptation.

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

400 Acute Health Deviations in Cardiorespiratory Function (3)

Prerequisite: Upper division standing or consent of instructor. Nursing management of patients who have health deviation self-care deficits because of critical physiological dysfunction of the cardiorespiratory system.

402A Fundamentals of Electrocardiography (2)

Fundamentals of vector analysis of the 12 lead electrocardiogram and basic arrhythmia detection.

402B Advanced Electrocardiography (2)

Prerequisite: NURS 402A. Advanced electrocardiography including detailed evaluation of 12 lead electrocardiogram in determining axis changes, conduction defect, cardiovascular hypertrophies, location of myocardial infraction, differentiation of complicated arrhythmias, and selected electrolyte and drug effects.

404 Acute Health Deviations in Metabolic, Hematologic, and Sensorimotor Function (3)

Prerequisite: Upper division standing or consent of instructor. Nursing care related to acute health deviations in metabolic, hematologic, and sensorimotor functions with their related pathophysiology and nursing care implications.

423 Nursing in School Health Programs Clinical Laboratory (6)

Prerequisites or corequisites: NURS 426, 428; COMD 440; admission to Health Services credential program. Clinical school nursing experience with multicultural and ethnic students in elementary, secondary, and special education settings under direction of credentialed school nurse preceptor.

426 Nursing Management in Public Schools (4)

Prerequisite: Admission into Health Services Credential program. Introduction to organization and management of school health services through coordination and integration of human and material resources to accomplish health goals in the educational settings.

428 Nursing Assessment in Public Schools (4)

Prerequisites: NURS 372, 373; admission into Health Services Credential program. Assessment and case management of physical, psychosocial, developmental, and environmental processes and requisites of school students. Includes State mandated screening.

430 Primary Health Care of Women (3)

Prerequisite: Upper division standing or consent of instructor. Assessment and management of self-care requisites unique to women in primary health care settings.

432 Assessment and Management of Obstetric Health (4)

Prerequisites: NURS 436, 437. Corequisite: NURS 433. Assessment and management of normal and selected high-risk women during pregnancy; includes fetal evaluation, health teaching, and psychosocial support.

433 Obstetric Health Care Laboratory for Nurse Practitioners (4)

Prerequisites: NURS 436, 437. Corequisite: NURS 432. Clinical experience for nurse practitioner students in ambulatory care of pregnant women.

436 Assessment and Management of Gynecologic Health (4)

Prerequisites: NURS 472, 473. Corequisite: NURS 437. Assessment and management of gynecologic health of women throughout the life span; includes pelvic and breast screening, health teaching, and care of episodic illnesses.

437 Gynecologic Health Care Laboratory for Nurse Practitioners (4)

Prerequisites: NURS 472, 473. Corequisite: NURS 436. Clinical experience for nurse practitioner students in ambulatory gynecologic health care.

442 Assisting Strategies in Psychosocial Nursing (3)

Prerequisite: Upper division standing or consent of instructor. Exploring concepts and theories from biobehavioral sciences and humanities related to development of self-care nursing actions in psychosocial nursing.

454L,P Selected Topics in Nursing (1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to nursing students announced in *Schedule of Classes*. May be repeated for credit.

456 Crisis Theory: Mental Health Promotion (3)

Prerequisite: Upper division standing or consent of instructor. Crisis theory as a basis for identification of maturational and situational high risk events that create an impact on mental health.

460 Problems of Parenting (2)

Prerequisites: PSY 150, upper division standing; CHDV 423 recommended. Parent and child health problems created by inadequate parent-child relationships. Health assessment and exploration of nursing intervention techniques.

462 Behavior Modification in Health Care (4)

Prerequisite: Upper division standing. Techniques for behavior modification in variety of health care problems.

464 Family Interaction Problems (2)

Prerequisite: Upper division standing; CHDV 421 recommended. Dysfunctional role and communication patterns in family unit.

468 Legal Aspects of Health Care Provision in California (3)

Prerequisite: Professional experience or upper division standing in a health related program. Exploration of legal aspects of health care provision: intentional torts, negligence and malpractice, practice acts, ethical-legal conflicts, and litigation procedure.

470 Community Health Assessment (3)

Prerequisite: Completion of 300-level nursing courses; corequisite: NURS 471. Synthesis of nursing theories and public health science applied to assessing and promoting the health of communities and aggregates at risk in the population.

471 Community Health Assessment Lab (3)

Application of nursing and public health theories assessment of communities and families/client group aggregates, and appropriate interventions.

472 Physical Assessment for Nurse Practitioners (4)

Cognitive, effective, and motor components of complete health assessment for nurse practitioner students including history, physical examination, laboratory studies, and formation of diagnostic, treatment, and educational plans of care.

473 Physical Assessment Laboratory for Nurse Practitioners (4)

Clinical experience for nurse practitioner students in obtaining and performing complete histories and physical examinations, formulating diagnoses, developing and implementing plans of care for adolescent, adult, and geriatric patients.

474 Primary Health Care of Children and Adults (3)

Prerequisites: NURS 470, 471, 490. Holistic primary health care of children and adults; emphasis on comprehensive assessment, management, patient education, and research.

476 Nursing and the Health Care System (3)

Prerequisites: Completion of all 300-level nursing courses. Forces shaping health care delivery and their impact on the delivery of nursing care. Nursing leadership for cost-effective care that increases access and ensures quality care.

480 Assessment and Care of Patients' Spiritual Needs (4)

Exploration of individual's spiritual needs in health care, and how spiritual care may be closely integrated with that of body and mind.

487 Transitions to Professional Practice (1)

Prerequisite: NURS 490. Prerequisite or corequisite: NURS 476. Corequisite: NURS 398. Clinical decision making in the care of selected patients in acute care settings.

490 Introduction to Nursing Research (4)

Prerequisites: Satisfactory completion of Graduation Writing Assessment Requirement (GWAR) and a statistics course that included inferential statistical content. Nursing research process and concepts applicable to clinical practice, reading, analyzing and critiquing research; development of skills in writing professional nursing papers according to the conventions of the genre.

494 Ethics in Nursing (3)

Lecture-seminar course covering the history and development of ethics in American nursing from 1800s to the present.

496 Nursing Case Management for Vulnerable Populations (3)

Prerequisites: NURS 476, 470, 471. Nursing case management role, models, and strategies for high-risk client populations. Focus on comprehensive care coordination: brokerage, monitoring, discharge planning, client/family advocacy, and direct nursing interventions.

497 Nursing Case Management of Vulnerable Populations Lab (3)

Corequisite: NURS 496. Clinical nursing case management laboratory for high-risk clients with complex health care problems. Focus on comprehensive care coordination: Brokerage, monitoring, discharge planning, client/family advocacy, and nursing interventions.

499 Undergraduate Directed Study (1–6)

Prerequisites: Instructor consent to act as sponsor; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected with sponsor before registration; progress meetings held regularly. May be repeated to 20 units.

Graduate Level Courses (NURS)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

500 Qualitative Nursing Research Evaluation (2)

Prerequisite: NURS 592. Critique of selected qualitative nursing studies; research problems, theories, designs, and instruments; alternative interpretations of findings explored.

502 Role Development of the Advanced Practice Nurse (2)

Prerequisites: Admission into graduate program in nursing or consent of instructor. Examination of advanced nursing practice roles within acute and primary care settings; critical analysis of issues related to legal scope of practice, licensure, certification, quality improvement, and reimbursement.

506A Advanced Nurse Case Management Strategies I (4)

Prerequisites: NURS 502, 524, 566A, and 572A or consent of instructor. Corequisite: NURS 595. Analysis of theories related to interrelationship of the biopsychosocial components of and the human responses to acute and chronic illness and the development of nurse case management strategies and intervention.

506B Advanced Nurse Case Management Strategies II (4)

Prerequisite or corequisite: NURS 506A. Corequisite: NURS 595. Advanced adult patient management and other professional collaborative strategies used by nurse case managers in acute, outpatient, and community-based settings.

512A Primary Care of Adults with Acute Health Problems (4)

Prerequisite: NURS 572B. Theories and research related to health promotion and disease prevention, assessment, differential diagnosis, management, and education of adults with acute, episodic health problems in ambulatory care clinics.

512B Care of Aging Adults (2)

Prerequisite: Admission to graduate program in nursing or consent of instructor. Theory and research related to assessment, diagnosis, and management of problems specific to aging clients with emphasis on socioeconomic, political, environmental, and cultural influences affecting care of the elderly.

513A Practicum: Primary Care of Adults with Acute Health Problems (4)

Prerequisite: NURS 573B. Clinical application of theory and research of health care to adult clients with acute, episodic health problems in ambulatory clinics.

513B Care of Aging Adults Practicum (4)

Prerequisite: NURS 513A. Corequisite: NURS 512B. Assessment, diagnosis, management and education/counseling of aging clients in outpatient clinics and long-term care facilities with an emphasis on clinical decision-making, health promotion, and disease complication prevention.

514A Monitoring and Therapeutics for Cardiopulmonary Patients (4)

Corequisite: NURS 515A. Theoretical and research-based strategies for making clinical decisions regarding diagnostic testing. Technologically-based monitoring modalities and therapeutic treatments utilized by advanced practice nurses for acutely ill cardiopulmonary clients.

514B Management of Adults with Cardiopulmonary Problems (5)

Prerequisite: NURS 514A. Corequisite: NURS 515B. Theoretical and practical basis for acute care nurse practitioner management and evaluation of hospitalized adult clients with acute dysfunction of the cardiorespiratory systems.

515A Advanced Therapeutics Practicum (4)

Corequisite: NURS 514A. Application of theoretical and research-based strategies for diagnostic tests, monitoring modalities, and therapeutic treatments for clients with complex cardiopulmonary dysfunction.

515B Cardiopulmonary Acute Care Nurse Practitioner Practicum (4)

Prerequisite: NURS 515A. Corequisite: NURS 514B. Hospital-based management of multifaceted, complex cardiopulmonary patients with an emphasis on clinical decision-making, interventions and evaluation strategies related to client/family outcomes, quality improvement, and resource management.

516A Care of Adults with Chronic Cardiopulmonary Problems (3)

Prerequisite: NURS 573B. Assessment, differential diagnosis, management, and education/counseling of adults and families with chronic stable cardiopulmonary disease with an emphasis on life style change, health promotion, and disease prevention strategies.

516B Care of Adults with Chronic and Acute Episodic Health Care Problems (4)

Prerequisite: NURS 573B. Health promotion, disease prevention, assessment, differential diagnosis, management, and education of hospitalized adults with underlying cardiopulmonary disease and/or additional episodic/chronic health problems.

517 Care of Adults with Chronic Health Problems Practicum (4)

Prerequisite: NURS 573B. Corequisite: NURS 516A. Clinical application of assessment, diagnosis, management, and education/counseling of adults with chronic health problems with an emphasis on lifestyle change, health promotion, and disease prevention in the students' selected specialty.

520 Care of Adults with Chronic Health Problems (3)

Corequisite: NURS 516A. Assessment, differential diagnosis, management, and education/counseling of adults and families with chronic health problems with an emphasis on lifestyle change, health promotion, and disease complication prevention.

522A Primary Care of Children with Acute Health Problem (4)

Prerequisite: NURS 572A. Corequisite: NURS 523A. Assessment, diagnosis and management of children with acute health problems and of their families, within primary care settings; health promotion, disease prevention, and multi-dimensional problems management strategies.

522B Primary Care of Children with Chronic Health Problem (4)

Prerequisite: NURS 573B or 522A. Assessment, diagnosis and management of children with chronic health problems and of their families, within primary care settings; health promotion, disease prevention, and multidimensional problems; management strategies.

522C Primary Care of Adolescents (2)

Prerequisite: NURS 573B. Corequisite: NURS 523C. Assessment, diagnosis, management of adolescents with special health problems and their families within primary care settings; health promotion, disease prevention, and multidimensional problems; management strategies.

523A Primary Care Practicum: Children with Acute Illness (3)

Corequisite: NURS 522A. Application of assessment knowledge and skills to appraise children and their families' health status; identification of acute health problems within primary care settings; management using multidimensional intervention strategies. Graded *CR/NC*.

523B Primary Care Practicum: Children with Chronic Illness (3)

Corequisite: NURS 522B. Application of knowledge and skills to appraise children and their families' health status; identification of chronic health problems within primary care settings; management using multidimensional intervention strategies. Graded *CR/NC*.

523C Primary Care Practicum: Adolescents (3)

Corequisite: NURS 522C. Application of assessment knowledge and skills to appraise adolescents' and their families' health status within primary care settings. Identification of health problems, management using multidimensional intervention strategies. Graded *CR/NC*.

524 Care of Vulnerable Populations (4)

Prerequisite: Admission to graduate program in nursing or consent of instructor. Examination of major health problems of vulnerable children, adults, and families from urban, underserved communities; assessment of risk factors; exploration of multidimensional, culturally-sensitive intervention strategies.

525 Vulnerable Populations Practicum (1-2)

Corequisite: NURS 524. Application of epidemiological model and provision of health care to clients from selected vulnerable populations. Identification of program deficiencies and programmatic changes to address needs. Graded *CR/NC*. Must complete 2 units in either one or two quarters.

528 Advanced Pharmacology (4)

Prerequisite: Admission to master's program in nursing. Pharmacokinetic principles and pharmacotherapeutic agents for promotion, prevention, diagnosis, and treatment of common client conditions encountered in primary care and acute health care settings.

529 Advanced Pediatrics Clinical Practicum (3)

Prerequisites: NURS 522C, 524. A preceptored clinical practicum designed to enhance the application of theory and acquisition of clinical skills in pediatric primary care settings. Graded *CR/NC*.

530A Management of the Child with Cardiopulmonary /Hematology/Oncology Problems (5)

Prerequisite: NURS 573B. Theoretical and practical basis for management of children with cardiopulmonary and hematologic illnesses; management of the child with cancer.

530B Management of the Child with Gastrointestinal/Renal Problems (4)

Prerequisite: NURS 530A. Theoretical and practical basis for management of children with acute dysfunction of gastrointestinal and renal systems.

530C Management of the Child with Trauma/Burns and Neurological Problems (4)

Prerequisite: NURS 530B. Theoretical and practical basis for management and evaluation of children with acute dysfunction of neurological system and/or suffering from trauma/burns.

531A Cardiopulmonary/Hematology/Oncology Pediatric Acute Care Nurse Practitioner Practicum (4)

Prerequisite: NURS 573B. Corequisite: NURS 530A. Management of children with multifaceted, complex cardiopulmonary, hematology, and oncology problems; emphasis on clinical decision-making, interventions and evaluation strategies related to child/family outcomes in pediatric health care settings.

531B Gastrointestinal/Renal Pediatric Acute Care Nurse Practitioner Practicum (4)

Prerequisite: NURS 531A. Corequisite: NURS 530B. Management of children with multifaceted, complex gastrointestinal and renal dysfunction; emphasis on clinical decision-making, interventions, and evaluation strategies related to child/family outcomes in pediatric health care settings.

531C Neurological/Trauma/Burns Pediatric Acute Care Nurse Practitioner Practicum (4)

Prerequisite: NURS 531B. Corequisite: NURS 530C. Management of children with trauma, burns and neurological problems; emphasis on clinical decision-making, interventions, and evaluation strategies related to child/family outcomes in pediatric health care settings.

532 Child and Family Adaptation to Illness (2)

Prerequisite: Admission to graduate program in nursing or consent of instructor. Theoretical base for identifying and strengthening physiological and psychological coping behaviors of the seriously ill or disabled child and family in pediatric health care settings.

542ABC Seminar: Psychiatric Mental Health Nursing (2, 2, 2)

Corequisite: NURS 595. Study and analysis of theories of psychotherapy, family therapy and group therapy; development of eclectic models; application of appropriate models to development of psychiatric/mental health nursing interventions.

560A Development of Educational Programs in Nursing I (3)

Prerequisites: EDFN 510; NURS 592; One year of clinical experience as RN. Development of nursing educational programs in collegiate, staff development and client settings; roles of nurse educator including instruction and evaluation roles.

560B Development of Education Programs in Nursing II (3)

Prerequisites: EDFN 510; NURS 560A, NURS 592. Development of nursing educational program in collegiate, staff development and client settings; conceptual models for organization of nursing curricula; issues and trends in nursing education.

562 Human Resource Utilization in Health Care Organizations (2)

Analysis of procedures in health care personnel practices: licensure, recruitment, hiring, staffing, continuing education, performance evaluation, incentive plans; changing roles among health care personnel.

564 Seminar: Health Care Administration (2)

Corequisite: NURS 595. Administrative issues in health care settings: goal complexity, power distribution, administrative-professional conflict, decision-making process, introduction of change; systems concept as assessment tool; interdependence of management team members in a health agency.

566A Advanced Pathophysiology (4)

Prerequisite: Admission to graduate program in nursing or consent of instructor. Physical disease processes within human body; body's adaptive physiologic mechanisms resulting from pathophysiologic alterations; rationale for clinical intervention.

566B Cardiopulmonary Physiology and Pathophysiology for Advanced Practice Nurses (2)

Prerequisites: Admission to graduate program in nursing and consent of instructor. Physiological and pathophysiological concepts that serve as foundation for assessment and management of clients with complex disorders of the cardiovascular and pulmonary systems.

572A Advanced Health Assessment and Health Promotion (4)

Prerequisite: NURS 566A. Corequisite: NURS 573A. Advanced health assessment of clients from holistic and contextual perspectives; analysis of physical, psychosocial, developmental, and environmental needs and processes of clients across the life span. Major health promotion strategies.

572B Developmental Assessment and Health Promotion (2)

Corequisite: NURS 572A. Developmental theories and tasks, nursing assessment strategies and health promotion in clients across the life span, as appropriate for advanced practice nurses.

573A Advanced Health Assessment and Health Promotion Laboratory (1)

Prerequisite: Successful completion of recent physical assessment course. Corequisite: NURS 572A. Clinical application of theory and research focusing on advanced assessment skills essential to practice in students' area of specialization.

573B Advanced Health Assessment and Health Promotion Practicum (3)

Prerequisite: NURS 573A. Application of advanced comprehensive health assessment and health promotion knowledge and skills to clients in selected adult or pediatric inpatient and/or outpatient clinical settings.

590 Quantitative Nursing Research Methods (4)

Prerequisite: NURS 592. Concepts and issues related to quantitative research design and measurement; development of hypothetical program evaluation or nursing research projects.

592 Theoretical Basis of Nursing Research and Practice (4)

Prerequisites: NURS 490 or equivalent and 4-unit statistics course. Theory, research and practice relationships through analysis and evaluation of theories, generation of research problems and examination of literature relative to variables of selected nursing research problems.

594 Decision-Making in Nursing and Health Care Policy (4)

Prerequisite: Admission to graduate program or consent of instructor. Nursing clinical inference and decision-making based on ethical, economical, legal, political and professional considerations; review of health policy and role of nursing in changing health care delivery system.

595 Advanced Field Study (1-15)

Corequisite: One NURS seminar selected from 506AB, 524; 542ABC, 560AB, 564, or enrollment in MS-Health Care Management program. Experience in specialized clinical and functional areas assigned on an individual basis. Weekly tutorial sessions required for student-teacher synthesis of data from concurrent seminar and field experience. Graded *CR/NC*.

597 Graduate Research (1-4)

Prerequisites: NURS 590 and instructor consent to act as sponsor. Independent research under guidance of faculty sponsor. May be repeated for credit. Graded *CR/NR* only.

598 Graduate Directed Study (1-4)

Prerequisite: Instructor consent to act as sponsor. Directed study of advanced topics in field; regularly scheduled conferences with sponsor. May be repeated to maximum of 8 units.

599 Thesis or Project (1-3)

Prerequisites: Advancement to candidacy, two units of NURS 597, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to maximum of 3 units. Graded *CR/NC*.

Department of**Pan-African Studies**

School of Natural and Social Sciences

DEPARTMENT OFFICE

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Pan-African Studies, as an interdisciplinary field of study, encompasses the systematic investigation of the history, culture, political economy, literature, arts, and languages of peoples of African descent and their contribution to world civilization. It reflects the experiences of a significant portion of the world's population and constitutes the cumulative results of several thousand years of intellectual history and development.

Interdisciplinary programs in Pan-African Studies prepare students for professional careers in teaching, public service, international relations, social work, law, and community development. The department has established an internship program that places students in local government offices to increase their exposure to and knowledge of local affairs. The Bachelor of Arts degree in Afro-American Studies is described below.

The Faculty**Acting Chair:** Marjorie W. Bray.**Professors:** Aida Takla O'Reilly, Jonathan Nwomonoh**Undergraduate Programs****Bachelor of Arts Degree in Afro-American Studies**

Three options are offered in this major. The first two focus on different geographical regions of the world, and the third is designed specifically for students interested in examination waiver for the Multiple Subject credential.

Requirements for the Major (75-80 units)

Options I and II combine core and elective programs of 76 units with a core of 60 units and 16 units of electives. Students seeking to combine the study of Afro-American Studies with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below (Option III). This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units specified below for this option.

Option I: Afro-American Studies (76 units)

Option I provides systematic study and research in Afro-American history, culture, and political economy to prepare students for graduate work and for careers in teaching, social work, law, community development, business, and related public service fields.

Lower Division Required Courses (20 units)

PAS 101 Introduction to Pan African Studies (4)

PAS 250AB African History (4,4)

PAS 251AB Afro-American History (4,4)

Upper Division Required Courses (40 units)

PAS 400 The Social Psychology of Afro-Americans (4)

PAS 402 Black Political Economy (4)

PAS 403 Afro-American Social Thought (4)

PAS 412 Third World Women and Development (4)

Upper Division Required Courses (cont'd)

PAS 414 Geography of Black Community (4)

PAS 420	Afro-American Culture (4)
PAS 440	Community Power Structure Analysis (4)
PAS 441	Community Power Structure Field Research (4)
PAS 495	Senior Thesis (4)
ENGL 308	Expository Writing (4) or
ENGL 406	Writing Nonfiction (4)

Electives (16 units)

Select 16 units in PAS and related fields (related fields limited to two courses)

CHS 430

GEOG 446

LAS/PAS/POLS 360

MUS 452

PAS 260, 401, 404, 416, 421, 422, 425, 490

SOC 460

SPCH 489

Option II: African, Caribbean, and Afro/Latin American Studies (76 units)

This option combines an integrative multidisciplinary course of concentrated study and research focused on the history, cultures, political economy, international relations, and development of Africa, the Caribbean, and Afro/Latin America. Emphasis on the development of research and technical skills is stressed to prepare students for graduate study and for professional careers in public service, international relations and business, overseas employment, and research and technical assistance programs.

Lower Division Required Courses (20 units)

PAS 101	Introduction to Pan African Studies (4)
PAS 250AB	African History (4,4)
PAS 251A or 251B	Afro-American History (4)
PAS 253	Caribbean History (4)

Upper Division Required Courses (40 units)

ECON 460	Economic Growth of Underdeveloped Areas (4) or
ECON/POLS 426	International Political Economy (4)
ENGL 308	Expository Writing (4) or
ENGL 406	Writing Nonfiction (4)
LAS/PAS 342	Cultural Impact of Development (4)
LAS/PAS/POLS 360	Dynamics of Change in the Developing World (4)
PAS 403	Afro-American Social Thought (4)
PAS 414	Geography of Black Community (4)
PAS 416	Pan Africanism and World Politics (4)
PAS 480	Education and Development in Africa (4)
PAS 495	Senior Thesis (4)
PAS/POLS 456	Politics of the Caribbean and Central America (4)

Electives (16 units)

Select four courses from the following fields:

PAS 260, 402, 412, 416, 441
 FIN 431
 GEOG 427, 333
 HIST 414AB, 415, 416, 463, 465
 HS 463
 LAS 424
 MKT 457
 POLS 451, 453

Select one course from:

ANTH 413
 ART 481
 LAS 435
 MUS 458
 PAS 125, 423, 428
 SPCH 489

Option III: Multiple Subject Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the **Undergraduate Studies: General Information** chapter of this catalog. Students interested in securing a California Multiple Subject Teaching Credential should consult the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106–111 units)

Refer to the **Undergraduate Studies: General Information** chapter of this catalog for the list of courses in this common core.

Major Courses (20 units)

PAS 101	Introduction to Pan-African Studies (4)
PAS 251A or 251B	Afro-American History (4)
PAS 403	Afro-American Social Thought (4)
PAS 414	Geography of Black Community (4)
PAS 495	Senior Thesis (4)

Literature (Pan-African Depth Area) (20 units)

ENGL 477	Black American Literature (4)
PAS 422	Themes in Black Literature (4)
PAS 423	Caribbean Literature (4)
PAS 426	African Literature (4)
ENGL/PAS 377	Literary Explorations of Justice and Racism (4)

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in Pan-African Studies

The Department of Pan-African Studies offers a minor with options in Afro-American Political Economy and Development and Pan-African Fine Arts. The minor consists of a combined core and elective program of 24 units.

Requirements for the Minor (24 units)**Lower Division (4 units)**

PAS 101

Upper Division Options (20 units)

In addition to the lower division requirement above, each student must select one of the two option programs below.

Option I: Afro-American Political Economy and Development

Select five courses from the following:
 PAS 401–403, 412, 416, 440, 441, 480, 490
 LAS/PAS 342,
 LAS/PAS/POLS 360
 PAS/POLS 456

Option II: Pan-African Fine Arts

Select five courses from following:
 PAS 420–425, 428, 490

The Credential Program

The Bachelor of Arts degree in Afro-American Studies with the Multiple Subject Teacher Preparation option satisfies the subject matter requirements for the Multiple Subject Teaching Credential. For detailed information regarding this credential, students should consult advisers in the department and in the Charter School of Education. Refer to the **Charter School of Education** section in the **Academic Programs: School-based and University-wide** chapters of this catalog for regulations governing all credential programs.

List of Courses (PAS)

Courses in Pan-African Studies (PAS)

Lower Division Courses

101 Introduction to Pan-African Studies (4)

A general overview of Pan-African studies.

125 Elementary Conversational African Language (4)

Methodical presentation of structure of particular African language through hearing, speaking, reading, and writing the language. May be repeated to maximum of 12 units as language offered changes.

250AB African History (4, 4)

Major themes of African history from origin of man and African civilization to institutional realities of Africa today.

GE D

251AB Afro-American History (4, 4)

History of Afro-Americans in the U.S.

253 Caribbean History (4)

Caribbean history and development including history of indigenous peoples, European colonialism, slavery, resistance, and independence. Includes Spanish-, English-, French-, and Dutch-speaking Caribbean islands.

254 Special Topics in Pan-African Studies (1–4)

Prerequisite: As needed for specific topic. Current topics of special interest to students in Pan-African Studies, as announced in Schedule of Classes. May be repeated to maximum of 8 units as subject matter changes.

260 Third World Images in Film (4)

Historical and contemporary portrayals of peoples of African, Asian, and Latin descent in film. Emphasis on foreign and American full-length documentary and story films.

Upper Division Courses

327 Ethnicity and Emotions in U.S. Film (4)

(also listed as ENGL 327 and CHS 327)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Critical analysis of the representations of ethnicity and emotions in U.S. film.

GE Theme E

342 Cultural Impact of Development (4)

(also listed as LAS 342)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Impact of colonialism, neocolonialism and globalization on art, literature, music and identity in developing countries.

GE Theme A

360 Dynamics of Change in the Developing World (4)

(also listed as LAS 360 and POLS 360)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Case studies illustrating why the third world came into being and how it is changing in the context of the globalized world economy.

377 Literary Explorations of Justice and Racism (4)

(also listed as ENGL 377)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Analysis of the literary depiction of racism and justice, with emphasis on the treatment of civil rights issues in fiction, drama, and poetry.

GE Theme H

380 Education and Development in the Third World (4) (also listed as EDFN 380 and LAS 380)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Comparative analysis of the systems of education in the Third World with particular emphasis on educational problems and issues, and their relationship to economic development and social change.

GE Theme A

386 Literature and the Third World (4)

(also listed as ENGL 386)

Prerequisites: Completion of Basis Subjects (Block A) and one course from Block C. Critically survey cultural representations, themes, and techniques of Third World literature and their Western diaspora writers.

GE Theme A

395 Service in Black Community (1–4)

Prerequisites: Approval by department faculty adviser in consultation with EPIC Director, acceptance by community agency. Participation in work of community agency or activity utilizing professional and/or vocational skills in service to community. Graded CR/NC. Credit toward baccalaureate limited to 4 units.

400 The Social Psychology of Afro-Americans (4)

Prerequisite: PAS 101 or PSY 150. Social and psychological determinants of Afro-American behavior; emphasis on attitude and identity formation and interpersonal/intercultural relations.

401 Education and Afro-Americans (4)

Prerequisite: PAS 101. Documented studies of the black child in various American school systems; investigation of primary factors in significantly lower performance ratings of black children.

402 Black Political Economy (4)

American capitalism and its formative influence on the life of Afro-Americans; emphasis on the organization of production and distribution, social relations, and economic inequality.

403 Afro-American Social Thought (4)

Recommended prerequisite: SOC 201. Historical and analytical consideration of contributions of Afro-American social thought to development and analysis of the black protest.

404 The Black Family (4)

Structure, functions, lineal analysis of Afro-American family and its African origin; condition of black family during slavery, Reconstruction, post-Reconstruction, wars, the Great Depression, economic boom and recession, and black revolution.

412 Third World Women and Development (4)

Prerequisites: Upper division standing: ANTH 250 recommended. The status and role of Third World women in societal development with primary emphasis on black women in developing countries.

414 Geography of Black Community (4)

Prerequisite: PAS 101. Locational experience of black people and their environmental relationship to economic and political institutions of the American nation.

416 Pan Africanism and World Politics (4)

Prerequisite: PAS 101. The interplay of Pan-Africanism as a cultural and sociopolitical movement in world politics.

420 Afro-American Culture (4)

Prerequisite: PAS 101. Exploration of existence of Africanisms, retentions, and syncretisms in the New World and their relationship to contemporary events and society.

421 History of Afro-American Music (4)

Prerequisite: PAS 101. Historical and stylistic development of black music from ancient Africa to present. Assessment of black musicians who have shaped musical climate of America.

422 Themes in Black Literature (4)

Prerequisite: PAS 101. Analysis and discussion of representative works of black authors from 18th century to present.

423 Caribbean Literature (4)

Early imitative Caribbean literature, its evolution into authentic original and individual expression of self; contemporary Caribbean writers, emphasis upon poetry, novels, and plays of Aime Cesaire.

425 Black Dialect (4)

Prerequisite: PAS 101. Historical development and understanding of black dialect from its African past to Afro-American idiom.

426 African Literature (4)

(also listed as ENGL 426)

Prerequisite: ENGL 250. African literature and its cultural background. Intensive study of writers in English and others in translation. Critical compositions and reports required.

428 Proseminar: Influence of Afro-American on Franco-African Literature (4)

Exploration of concept of negritude as authentic original literary movement, factors that influence it, and reactions it created.

440 Community Power Structure Analysis (4)

Prerequisite: PAS 101. Study of the key institutions that compose the power structure in the Afro-American community.

441 Community Power Structure Field Research (4)

Prerequisite: PAS 101; PAS 440 recommended. Supervised intensive study and field research in selected black and other Third World communities.

456 Politics of the Caribbean and Central America (4)

(also listed as POLS 456)

Prerequisite: POLS 150. Political development and dependency in the Caribbean and Central America.

480 Education and Development in Africa (4)

Prerequisite: Upper division standing. Study of the educational systems in Africa with emphasis on the social, economic, and political factors influencing educational objectives and strategies.

490 Special Topics in Pan-African Studies (4)

Prerequisite: Instructor consent. Presentation and discussion of academic papers relating to given topic; lectures aimed at critical analysis and appraisal. May be repeated once for credit.

495 Senior Thesis (4)

Prerequisites: ENGL 102*; LBS 360; passing WPE score; senior standing. Individual project/senior thesis involving research techniques in Pan African Studies, including problem identification, hypothesis formulation, design and data gathering and analysis.

**Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.*

499 Undergraduate Directed Study (1-4)

Prerequisites: Minimum of 8 units in Pan-African Studies, 3.0 grade point average, senior or graduate standing, consent of full-time faculty member to serve as sponsor, and recommendation of department chairperson. Term project selected in conference with sponsor, progress meetings held regularly, final report required. May be repeated to maximum of 8 units.

Department of**Philosophy**

School of Arts and Letters

DEPARTMENT OFFICE

Engineering and Technology A429

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E-mail Addresses: Questions about advising and for other information can be emailed to philba@calstatela.edu or philma@calstatela.edu. In addition, every faculty member has an email address composed of the initial of first name plus last name (or the first six letters of a longer last name) @calstatela.edu, for example, jfaust@calstatela.edu or mbalagu@calstatela.edu.

“ The unexamined life is not worth living.”

One of the great insights of the philosopher Socrates, this truth underlies the study of Philosophy. The programs in philosophy are intended to provide students with principles of inquiry and evaluation relevant to many areas of human activity, such as science, law, religion, education, government, and art; to develop in them skills of analysis, criticism, and synthesis needed for advanced work in many scholarly fields; and to acquaint them with noteworthy contributions by philosophers to intellectual traditions. Philosophy is an appropriate field of study for students hoping to attend law school.

An undergraduate major can be taken in Philosophy with any of three options: General, Prelaw, and Multiple Subject Credential.

An undergraduate minor in Philosophy with General and Prelaw options is available for students majoring in other fields.

An interdisciplinary minor in Classics is administered by the Department of Philosophy. The faculty is provided by cooperating departments of the School of Arts and Letters and the School of Natural and Social Sciences.

The Master of Arts degree in Philosophy offers students a broad background in both the history of philosophy and contemporary thought. The program is designed to accommodate various student goals; for example, preparation for further graduate study or for community college teaching as well as self-enrichment. In some specific areas of philosophy, career opportunities are available in institutions engaged in basic research.

A postbaccalaureate certificate program in Teaching Critical Thinking is available for those with an interest in the theory and techniques of teaching critical thinking at either the college or secondary school level.

The Faculty

Professors: Sharon Bishop (Chair), Ann Garry, Ricardo J. Gómez, Henry R. Mendell, Joseph B. Prabhu.

Associate Professors: Mark Balaguer.

Assistant Professors: Jennifer Faust, Manuyil Im, Kayley Vernallis.

Emeriti: Sidney P. Albert, Thomas Annese, Donald R. Burrill, George R. Vick.

Undergraduate Programs**Bachelor of Arts Degree**

The Bachelor of Arts degree in Philosophy is suited to the needs of several groups of students: those seeking a broad and integrated liberal education; those preparing for law school; those interested in careers in government, education, publishing, theology, or the ministry; and those planning to do graduate work in philosophy with an aim of teaching at the college level.

Students seeking to combine the study of Philosophy with the Multiple Subject Teacher Preparation Program can satisfy both goals with the Multiple Subject Teacher Preparation Option described below. This option requires the completion of 106-111 units from the Multiple Subject Teacher Preparation common core, plus the 75-80 units described below for this option.

Requirements for the Major (60-80 units)***General Option (60 units)***

A total of 60 quarter units in philosophy is required for the major with the General option.

Lower Division Required Courses (8 units)

PHIL 151 Philosophical Ideas: Knowledge and Reality (4)
PHIL 250 Introduction to Symbolic Logic (4)

Upper Division Required Courses (16 units)

PHIL 304 Ethics I (4)
PHIL 311 History of Ancient Philosophy (4)
PHIL 313 History of Modern Philosophy (4)
PHIL 496 Philosophical Writing and Method (4)

Electives (16 units)

Select one from the following:

PHIL 410 Social and Political Philosophy (4)

Electives (cont'd)

PHIL 420 Ethics II (4)

PHIL 475 Aesthetics (4)

Select one from the following:

PHIL 452 Medieval Philosophy (4)

PHIL 458 Major Figures in Modern Philosophy (4)

PHIL 459 Recent Philosophy (4)

Select at least two from following including at least one from 405, 460, 470:

PHIL 404 Inductive Logic (4)

PHIL 405 Symbolic Logic (4)

PHIL 406 Advanced Logic (4)

PHIL 460 Metaphysics (4)

PHIL 470 Theory of Knowledge (4)

PHIL 480 Philosophy of Language (4)

PHIL 485 Philosophy of Science (4)

Additional Electives (20 units)

At least 12 units must be at the 400-level. Select courses with adviser approval.

Prelaw Option (80 units)

A total of 80 quarter units is required for the major with the Prelaw option, including 60 units in philosophy and 20 outside philosophy.

Lower Division Required Courses (8 units)

PHIL 151 Philosophical Ideas: Knowledge and Reality (4)

PHIL 160 Critical Thinking (4) **or**

PHIL 250 Introduction to Symbolic Logic (4)

Upper Division Required Courses (16 units)

PHIL 304 Ethics I (4)

PHIL 311 History of Ancient Philosophy (4)

PHIL 313 History of Modern Philosophy (4)

PHIL 496 Philosophical Writing and Method (4)

Electives in Philosophy (16 units)

Select two from following:

PHIL 410 Social and Political Philosophy (4)

PHIL 420 Ethics II (4)

PHIL 490 Philosophy of Law (4)

Select two from following:

PHIL 470 Theory of Knowledge (4)

PHIL 480 Philosophy of Language (4)

PHIL 485 Philosophy of Science (4)

Additional Electives in Philosophy (20 units)

At least 12 units must be at the 400-level. Select courses with adviser approval.

Additional Electives Outside Philosophy (20 units)

Select courses with adviser approval that supplement prelaw background.

Multiple Subject Teacher Preparation Option (75-80 units, plus 106-111 common core units)

Students who select this option must complete a total of 186 units to graduate, of which 106-111 units must be selected in accord with the Multiple Subject Matter Teacher Preparation Program common core requirements. In addition, students choosing this option must complete the 75-80 units described below, which consist of 20 units of required major area courses, 20 units of required depth area courses and 35-40 units of electives. The 106-111 units in the common core requirements are described in detail in a chart in the *Undergraduate Studies: General Information* chapter of this catalog. Students interested in securing a California Multiple

Subject Teaching Credential should consult the **Charter School of Education** section in the *Academic Programs: School-based and University-wide* chapter for the regulations governing all teacher credential programs.

Required Multiple Subject Common Core Courses (106–111 units)Refer to the *Undergraduate Studies: General Information* chapter of this catalog for the list of courses in this common core.**Required Major Courses (20 units)**

PHIL 151 Philosophical Ideas: Knowledge and Reality (4)

PHIL 304 Ethics I (4)

PHIL 311 History of Ancient Philosophy (4)

PHIL 313 History of Modern Philosophy (4)

PHIL 496 Philosophical Writing and Method (4)

Required Humanities (Philosophy) Depth Area (20 units)PHIL 410 Social and Political Philosophy (4) **or**

PHIL 420 Ethics II (4)

PHIL 433 Latin American Philosophy (4) **or**PHIL 436 South Asian Philosophy (4) **or**

PHIL 437 East Asian Philosophy (4)

PHIL 470 Theory of Knowledge (4) **or**

PHIL 485 Philosophy of Science (4)

Two additional four-unit, upper division elective courses in philosophy.

Electives (35-40 units)

Students who wish to minimize the time needed to complete the preparation program for the Multiple Subject Teaching Credential are advised to focus these electives on professional education courses. In any event, it is strongly recommended that students see both a teaching credential advisor in the Charter School of Education and their academic subject major advisor to plan these electives.

Minor in Philosophy

A total of 32 units is required, including at least 24 units in upper division courses.

Requirements for the General Option Minor (32 units)**Lower Division Required Courses (8 units)**PHIL 151 Philosophical Ideas: Knowledge and Reality (4) **or**

PHIL 152 Philosophical Ideas: Human Values (4)

PHIL 250 Introduction to Symbolic Logic (4)

Upper Division Required Courses (12 units)

PHIL 304 Ethics (4)

PHIL 311 History of Ancient Philosophy (4)

PHIL 313 History of Modern Philosophy (4)

Electives (12 units)

Select 12 philosophy units with adviser approval

Requirements for the Prelaw Option Minor (32 units)**Lower Division Required Courses (8 units)**PHIL 151 Philosophical Ideas: Knowledge and Reality (4) **or**

PHIL 152 Philosophical Ideas: Human Values (4)

PHIL 160 Critical Thinking (4) **or**

PHIL 250 Introduction to Symbolic Logic (4)

Upper Division Required Courses (8 units)

PHIL 304 Ethics I (4)
 PHIL 311 History of Ancient Philosophy (4) or
 PHIL 313 History of Modern Philosophy (4)

Electives (8 units)

Select two from the following:

PHIL 410 Social and Political Philosophy (4)
 PHIL 420 Ethics II (4)
 PHIL 490 Philosophy of Law (4)

Additional Electives (8 units)

Select philosophy courses with adviser approval.

Minor in Classics

The minor in Classics is an interdisciplinary program that provides students with an understanding of the culture of ancient Greece and Rome. In conjunction with a major program in anthropology, art history, English, history, philosophy, or political science, the classics minor will prepare students for graduate study in the major field. Alternatively, the Classics program can serve as a means of enriching one's experience and achieving a fuller understanding of contemporary Western culture.

The minor consists of 28 units, of which 4 are required in Classics and 24 are selected from the five areas listed below. Courses chosen must include at least one from each of three different areas. Prior approval must be obtained from the adviser for selected topics and directed study courses. No more than 8 units taken for credit in the student's major program can be used to meet requirements for the minor. Each student's program must be approved by the director and principal adviser of the Classics program.

Requirements for the Minor (28 units)**Core course (4 units)**

CLAS 300 Origins of Classical Thought (4)

Area I: Anthropology and Art

ANTH 425 Archaeology of the Old World (4)
 ART 406 Ancient Near Eastern Art and Archaeology (4)
 ART 411 Greek and Roman Art (4)
 ART 476 Early Christian and Byzantine Art (4)

Area II: Mythology, Literature, and Rhetorical Theory

ENGL 258 Mythology in Literature (4) (when classical)
 ENGL 354 Selected Topics in Literature (4) (when classical)
 ENGL 424 Greek and Roman Drama in Translation (4)
 ENGL 480 Literature and the Fine Arts, BC (4)
 ENGL 481 Literature and the Fine Arts, AD (4)
 ENGL 497 Special Studies in World Writers in Translation (1-4) (when classical)
 SPCH 454 Selected Studies in Speech Communication (1-4) (when classical)
 TA 460 Studies in Selected Dramatists (1-4) (when classical)

Area III: History and Political Theory

HIST 400A History of Science: Antiquity to Renaissance (4)
 HIST 410 Ancient Near East: 4000-323 BC (4)
 HIST 411 History of Ancient Greece (4)
 HIST 412A Early Rome, The Republic (4)
 HIST 412B The Roman Empire (4)
 HIST 413 Greek History: The Alexandrian Age (4)
 POLS 410 Classical Political Theory (4)

Area IV: Philosophy

PHIL 311 History of Ancient Philosophy (4)
 PHIL 450 Plato (4)
 PHIL 451 Aristotle (4)
 PHIL 474 Philosophy in Literature (4) (when classical)

Area V: Languages

LATN 100ABC Elementary Latin (4, 4, 4)
 Greek (through directed study in any of those departments associated with this minor whose faculty are qualified to direct such study).

Directed study or independent study about a selected classical figure or topic is also available from each department associated with this minor program.

Graduate and Postbaccalaureate Programs**Master of Arts Degree**

The Master of Arts degree in Philosophy draws students with a wide range of interests and professional goals, including further graduate study in philosophy, community college teaching and personal enrichment. Although the department is analytically oriented, it encourages work in other areas, for example, Asian philosophy, feminist philosophy, and the intersection between European and Anglo-American thought.

Admission to the Program

In addition to University requirements for admission to graduate study (a 2.5 grade point average in the last 90 quarter units) applicants must possess a baccalaureate in philosophy or a baccalaureate with a major in a field other than philosophy supplemented by appropriate preparation in philosophy.

Applicants must consult an adviser in philosophy to determine whether any academic deficiencies exist before admission to the program can be granted.

Requirements for the Degree (45 units)**Required Courses**

A total of 45 units is required, with at least 36 in philosophy and 23 in 500-level courses. Courses outside philosophy must be relevant to the student's program.

Prerequisites

Students are required to include the following philosophy courses in their program, if not completed prior to admission to the program.

PHIL 405 Symbolic Logic (4)
 PHIL 460 Metaphysics (4)
 PHIL 470 Theory of Knowledge (4)

Comprehensive Examinations or Thesis (0, 1-6 units)

PHIL 596 Comprehensive Examination (0) or
 PHIL 599 Thesis (1-6)

Comprehensive Examinations

Students must comply with school and departmental eligibility requirements for registration for the comprehensive examinations (PHIL 596) and may take all three examinations during one quarter or spread them over successive quarters. Students are required to pass comprehensive examinations in three of the following four areas: History of philosophy (ancient, modern, and either medieval or recent); metaphysics and theory of knowledge; philosophy of science, philosophy of language, logic (any two); and ethics and either aesthetics or social and political philosophy.

Students are permitted two attempts to pass each comprehensive examination. Students who fail a comprehensive examination in the same area a second time will be disqualified from the program.

Thesis

Completion of the first 24 units of the master's degree program with a minimum 3.5 grade point average, approval of the thesis proposal by the department, enrollment in 1-6 units of PHIL 599, and an oral examination about the thesis are required for the thesis option. Students who have at any time attempted the comprehensive examination (PHIL 596) are ineligible for this option.

Students who select the thesis option must include seminars in at least three of the four major comprehensive examination areas in their master's degree program.

Certificate Program in Teaching Critical Thinking

The credit certificate program in Teaching Critical Thinking is designed for those with an interest in the theory and techniques of teaching critical thinking at either the college or secondary school level.

In addition to University requirements for admission to graduate study, applicants must have some background in philosophy or another humanistic discipline. In particular, students must be familiar with both sentential and predicate logic. Interested students should consult the program coordinator in the Department of Philosophy. Deficiencies in preparation may be remedied during the first quarters of enrollment in the program.

This certificate program is **not** equivalent to any program that leads to a teaching credential. A total of 24 units is required, including 16 units in the required core and 8 in electives, with a minimum *B* (3.0) grade point average. Most courses are applicable to the Masters of Arts in Philosophy. Refer to the **Charter School of Education** section in the **Graduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (24 units)

Required Core Courses (16 units)

- PHIL 480 Philosophy of Language (4)
- PHIL 485 Philosophy of Science (4)
- PHIL 580 Seminar: Critical Thinking—Models and Strategies (4)
- PHIL 581 Projects in Teaching Philosophy (4)

Electives (8 units)

In consultation with an adviser, select two 400 or 500-level philosophy courses or seminars or SPCH 576 Seminar: Argumentation, Discussion, and Debate (4)

Students who are interested in teaching critical thinking courses in areas other than philosophy may substitute appropriate courses with adviser approval.

List of Courses - Undergraduate Level

Course in Classics (CLAS)

Upper Division Course

300 Origins of Classical Thought (4)

Beginnings of classical culture in ancient Greece; analysis of early classical conception of art, sciences, technology, politics, philosophy, and religion; emphasis on role of basic concepts in shaping Greek and Roman civilization.

Courses in Philosophy (PHIL)

Lower Division Courses

151 Philosophical Ideas: Knowledge and Reality (4)

An examination of major philosophical issues concerning knowledge and reality, such as skepticism, belief, truth, the existence of God, personal identity, and the mind/body problem. **CAN PHIL 2 GE C3**

152 Philosophical Ideas: Human Values (4)

An examination of philosophical issues concerning human values, such as relativism, the good life, and value conflicts. **GE C3**

160 Critical Thinking (4)

Logical analysis of language and critical evaluation of arguments in everyday language; deductively valid and invalid argument forms; rudiments of inductive logic and scientific reasoning; informal fallacies. **GE A3**

200 Introduction to Comparative Religions (4) (also listed as RELS 200)

Methods and concepts in comparative religions; multidisciplinary approaches to the study of ancient and contemporary religious phenomena in literate and illiterate cultures. **GE C3**

210 Conceptions of the Self in Philosophy and Literature (4) (also listed as ENGL 210)

Examination of various conceptions of the self as they arise in philosophical and literary texts; examination of methods and goals of the philosophical and literary arts. **GE C5**

220 Contemporary Moral and Social Issues in a Multicultural Society (4)

Philosophical examination of values, assumptions, and arguments that underlie contemporary moral and social issues in a multicultural society. Topics include, for example, reproductive rights, sexuality, racism, sexism, and justice. **GE C3**

230 The Meaning of Human Life: A Multicultural Approach (4)

Investigation of the meaning of human life from multiple perspectives. Particular focus on factors which may promote or jeopardize meaning, such as death, suffering, absurdity, freedom, God. **GE E**

250 Introduction to Symbolic Logic (4)

Introduction to modern symbolic logic and its relation to everyday language; methods of establishing the logical content of statements and of analyzing and/or criticizing arguments for validity and invalidity. **CAN PHIL 6 GE A3**

Upper Division Courses**304 Ethics I (4)**

Analysis of empirical and normative factors involved in choice, types of ethical theory, nature of moral standards and judgments.

311 History of Ancient Philosophy (4)

Development of philosophical thought from pre-Socratics to Plotinus; principal thinkers, major problems, and dominant trends in Western thought.

313 History of Modern Philosophy (4)

Prerequisite: One PHIL course. Development of philosophical thought from the Renaissance to Kant; principal thinkers, major problems, and dominant trends in Western thought.

321 Ancient Thought and its Modern Legacy (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Major themes in classical thought and their ongoing influence, for example, the development of self-consciousness, the concept of rationality, human values and the meaning of life. **GE Theme I**

323 Human Diversity and Justice (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of justice and its relations to individual, social and political treatment of differences in race, ethnicity, gender, class, religion. Implications for individual and cultural pride, self-respect, cultural diversity. **GE Theme H**

325 Violence and Ethics (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of the nature of individual and societal violence including physical and psychological violence. Ethical issues: justification of violence, responsibility for violence, treatment or punishment. Moral psychology of violence. **GE Theme B**

327 Philosophy, Gender and Culture (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of concepts, values and assumptions relevant to gender in a multicultural context. For example, identity, power, culture and justice; moral issues concerning gender, sexual orientation, love and families. **GE Theme C**

331 Environmental Ethics (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of concepts, values and moral principles regarding the natural environment and its relationship to human life. Topics may include biodiversity, animal rights, population, world hunger, pollution, sustainable communities. **GE Theme G**

334 Post-Colonial Values and Modernization in the Developing World (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical investigation of concepts and values underlying the modernization of developing countries in the areas of socio-economic development, cultural autonomy, ecological sustainability, and the post-colonial challenges of contemporary globalization. **GE Theme A**

354 Special Topics in Philosophy (1–6)

Prerequisite: As needed for specific topic. Topics of special interest in philosophy as announced in Schedule of Classes. May be repeated to a maximum of 8 units for credit as subject matter changes.

372 Philosophy and the Emotions (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Philosophical examination of the nature of emotion; exploration of emotions such as anger, fear, love, shame, jealousy. Relations among emotion, reason, action, character and self-control. Contributions of nature and culture. **GE Theme E**

373 Themes of Adult Life in Philosophy (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Maturity and aging explored philosophically through perspectives of race, ethnicity, class, and gender. Challenges of adult life such as personal relations, self-understanding and responsibility, death and dying, meaningfulness of life. **GE Theme F**

380 Ancient and Modern Science (4)**(also listed as HIST 380 and CHEM 380N)**

Prerequisites: Completion of GE Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient scientific thought and its relationship to modern science. **GE Theme I**

385 Measurement of Human Difference (4)**(also listed as ANTH 385)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Exploration of issues of diversity and justice through examination of popularized accounts of scientific research into human difference; topics include I.Q. testing and race, "innate" gender differences, and sexuality. **GE Theme H**

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

404 Inductive Logic (4)

Prerequisite: PHIL 250. Analysis of induction and probability in everyday affairs and in science, systematic development of inductive logic, elements of the probability calculus and applications, philosophical issues in inductive logic.

405 Symbolic Logic (4)

Prerequisite: PHIL 250. Logic and language, nature of argument, meaning and truth, propositional calculus, and predicate calculus.

406 Advanced Logic (4)

Prerequisite: PHIL 405. Selected topics in logic; e.g., identity, definite descriptions, foundations of mathematics, metalogic, philosophical logic, as announced in Schedule of Classes. May be repeated as content changes.

407 Philosophy and Artificial Intelligence (4)

Philosophical investigation of computational technology, and the relation of the structure and operation of computers to human thought.

410 Social and Political Philosophy (4)

Prerequisite: One PHIL course. Philosophical foundations of social and political thought; analysis of such concepts as state, law, obligation, and sanction, and their relation to issues in metaphysics, theory of knowledge, and ethics.

415 Philosophy of Religion (4)

Prerequisite: One PHIL course. Systematic approach to issues of noteworthy religious significance, such as eternity, faith, worship, the holy, with aim of distinguishing religion from other modes of human experience.

420 Ethics II (4)

Prerequisite: PHIL 304. Contemporary meta-ethical theories, analyses of concept of good, analyses of concept of obligation, validation of moral statements, ethical relativism, praise and blame, moral responsibility.

425 Philosophy of History (4)

Prerequisite: One PHIL course. Philosophical study of Western historical writing and thought, nature of historical knowledge, historical explanation, history and values, meaning of history.

429 Bioethics (4)

Prerequisite: One PHIL course. Philosophical consideration of moral issues concerning health and health care, such as decisions about death, reproductive choices, medical experimentation, and justice in allocating health resources.

430 American Philosophy (4)

Prerequisite: One PHIL course. Major movements of thought and principal thinkers in America from colonial times to 20th century; relationships of American philosophy to European intellectual currents; influence and effect of dominant doctrines on American life and outlook.

433 Latin American Philosophy (4)

Prerequisite: One PHIL course. Philosophical thought in Latin America with emphasis on contemporary philosophers, especially those of Mexico and Argentina.

436 South Asian Philosophy (4)

Prerequisite: One PHIL course. Exploration of the 4,000-year Indian/South-Asian philosophical traditions, encompassing the early classics, orthodox and unorthodox systems of Indian Philosophy, and modern developments.

437 East Asian Philosophy (4)

Prerequisites: One PHIL course. Exploration of the philosophical traditions of China, Japan, and Korea and the development of those traditions, encompassing Confucianism, Taoism and Buddhism along with their rivals and offshoots.

440 Contemporary Philosophy (4)

Prerequisite: One PHIL course. Major problems and trends in 20th century philosophy.

445 Existentialism (4)

Prerequisite: One PHIL course. Major works of existential philosophy; relation of existentialism to contemporary value problems; 19th century background and contemporary varieties of existential thought, both religious and nonreligious.

446 Phenomenology (4)

Prerequisite: One PHIL course. Descriptive and constitutive methodologies of phenomenology; application of phenomenological method to problems in ontology, aesthetics, language, psychology, and social theory.

450 Plato (4)

Prerequisite: PHIL 311. Exposition and analysis of principal works of Plato.

451 Aristotle (4)

Prerequisite: PHIL 311. Exposition and analysis of principal works of Aristotle.

452 Medieval Philosophy (4)

Principal themes in neo-Platonic and/or neo-Aristotelian philosophy, with concentration on teachings of particular figures, e.g., Plotinus, Augustine, Pseudo-Dionysius, Anselm, Bonaventure, Aquinas, Duns Scotus, Ockham.

458 Major Figures in Modern Philosophy (4)

Selected philosophers in the modern era: e.g., Descartes, Hobbes, Spinoza, Locke, Berkeley, Hume, Rousseau, and Kant. Specific topic listed in Schedule of Classes. May be repeated to a maximum of 8 units as content changes.

459 Recent Philosophy (4)

Prerequisite: One PHIL course; PHIL 313 recommended. Selected philosophical themes from Kant to late 19th century; contributions of selected philosophers, e.g.: Kant, Hegel, Marx, Nietzsche, Kierkegaard, Comte, and Mill.

460 Metaphysics (4)

Prerequisite: One PHIL course. Investigation of fundamental nature of reality and of persons. Topics include some of the following; free will, personal identity, the mind/ body problem, universal and particulars, abstract objects, space/time and causality.

470 Theory of Knowledge (4)

Prerequisite: PHIL 250 or upper-division standing in philosophy. Investigation of fundamental nature of human knowledge and related concepts, including belief, truth, and justification; additional topics may include: realism and relativism, skepticism, critiques of traditional theory of knowledge.

471 Philosophy of Mind (4)

Prerequisite: One PHIL course. Philosophical analysis of concepts of mind, mental phenomena, actions, emotions, and will; philosophical theories of mind.

474 Philosophy in Literature (4)

Philosophical ideas and issues in selected literary works.

475 Aesthetics (4)

Prerequisite: One PHIL course. Main problems and principal theories of art creation, appreciation, and criticism; aesthetic experience and the work of art; principles of aesthetic evaluation and their effect on morality, government, society, science, and philosophy.

480 Philosophy of Language (4)

Prerequisites: PHIL 250, one additional PHIL course. Semantic, syntactic, and pragmatic dimensions of language; theories of signs and meaning; cognitive, emotive, and other features of language; ordinary language and formal language as analytical tools; philosophical importance of language.

485 Philosophy of Science (4)

Prerequisite: PHIL 250 or upper division standing in any major. Philosophical issues in the physical, life, and social sciences. Problems selected for study may include: concept formation, hypotheses and models, meaning and verification, prediction and explanation, causality and natural law.

490 Philosophy of Law (4)

Prerequisite: One PHIL course. Philosophical investigation of fundamental presuppositions of legal theory, analysis of basic legal concepts.

495 Proseminar: Selected Works in Philosophy (4)

Prerequisite: Varies according to subject matter. Close study of major philosophical writings, stressing meaning, methods of inquiry, and grounds upon which argued. Content varies. May be repeated to a maximum of 8 units for credit as subject matter changes.

496 Philosophical Writing and Method (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Principles and techniques important in philosophical writing; examination of philosophical methodology and styles of argumentation; practice in philosophical writing.

499 Undergraduate Directed Study (1–4)

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to a maximum of 8 units for credit.

Graduate Level Courses (PHIL)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser

Classified graduate standing is required for admission.

510 Seminar: History of Philosophy (4)

Advanced study of selected figures and problems in history of philosophy. May be repeated to a maximum of 12 units as subject matter changes.

521 Seminar: Logic (4)

Advanced study of selected problems in deductive or inductive logic. May be repeated to a maximum of 12 units as subject matter changes.

523 Seminar: Philosophy of Language (4)

Advanced study of selected problems in philosophy of language. May be repeated to a maximum of 12 units as subject matter changes.

525 Seminar: Philosophy of Science (4)

Advanced study of selected problems in philosophy of the sciences, including mathematics, natural sciences, psychology, and social sciences. May be repeated to a maximum of 12 units as subject matter changes.

531 Seminar: Metaphysics (4)

Advanced study of selected problems in metaphysics. May be repeated to a maximum of 12 units as subject matter changes.

532 Seminar: Theory of Knowledge (4)

Advanced study of selected problems in theory of knowledge. May be repeated to a maximum of 12 units as subject matter changes.

542 Seminar: Aesthetics (4)

Advanced study of selected problems in aesthetics. May be repeated to a maximum of 12 units as subject matter changes.

543 Seminar: Ethics (4)

Advanced study of selected problems in ethics, including moral theory and applied issues. May be repeated to a maximum of 12 units as subject matter changes.

544 Seminar: Social and Political Philosophy (4)

Advanced study of selected problems in social and political philosophy, including social/political theory and applied issues. May be repeated to a maximum of 12 units as subject matter changes.

580 Seminar: Critical Thinking—Models and Strategies (4)

Prerequisites: PHIL 480, 485. Theoretical models of critical thinking and pedagogical strategies and materials for teaching different kinds of students.

581 Projects in Teaching Philosophy (4)

Prerequisite: PHIL 580. Planned preparation and critical evaluation of undergraduate philosophy classes, especially critical thinking.

598 Graduate Directed Study (1–4)

Prerequisite: Consent of faculty sponsor before registration. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 8 units for credit.

599 Thesis (1–6)

Prerequisites: minimum 3.5 grade point average in first 24 units of MA program, formal approval by department. Independent research resulting in a thesis. May be repeated to maximum of 6 units. Graded *CR/NC*. Not open to students with prior enrollment in comprehensive examinations (PHIL 596).

Department of**Physics and Astronomy**

School of Natural and Social Sciences

DEPARTMENT OFFICE

Physical Sciences 315

Phone: (323) 343-2100

Email: physics@calstatela.edu

Website: www.calstatela.edu/dept/physics/phys_ast.htm

The Department of Physics and Astronomy offers undergraduate and graduate programs in physics, with opportunities for professional preparation in a variety of directions, including nuclear physics, condensed matter physics, astronomy, and biophysics.

Undergraduate programs include one leading to the Bachelor of Science degree, one leading to the Bachelor of Arts degree, and a minor in Physics for students majoring in other fields. The Bachelor of Science curricula include the general program without specialization and an option in Biophysics. The department also participates in the interdisciplinary Bachelor of Science degree program in Natural Science and in the subject matter preparation for the Single Subject Teaching Credential in Science. Although no specific option is offered in astronomy, astronomy courses are available as electives for other options.

The Faculty

Professors: Radi A. Al-Jishi, Konrad A. Aniol (*Chair*), Robert H. Carr, Harold L. Cohen, Charles C. Coleman, Martin B. Epstein, Perry S. Ganas, David T. Gregorich, Demetrius J. Margaziotis, Edward H. Rezayi, William A. Taylor, John C. Woolum.

Associate Professor: Jose P. Rodriguez, Milan B. Mijic.

Assistant Professors: Oscar O. Bernal

Emeriti: Roland L. Carpenter, Berken Chang, Bruce Dayton, Donald E. Hudson, Fernando B. Morinigo, Frieda A. Stahl, Hubert C. Winkler, Fleur Yano.

Undergraduate Programs**Departmental Honors Program**

The Department of Physics and Astronomy offers an honors program for qualified students. Students may apply in their junior year after completing PHYS 201–205. Candidates must maintain a *B* (3.0) grade point average both in their major and overall. Completion of the honors program requires 3 units of independent, research-oriented study (PHYS 396) and presentation of the work in a colloquium. Graduation with honors in Physics is conferred upon those students whom the faculty of the department deem worthy after presentation of the colloquium. Diplomas and transcripts of honors program graduates are designated: “*Graduated with Departmental Honors in Physics.*”

Bachelor of Arts Degree in Physics

The Bachelor of Arts degree in Physics provides a program appropriate for students interested in such careers as teaching, public service, business, or science journalism. This program does not include the advanced study needed by students who wish to prepare for careers as physicists, but provides the breadth needed for many other innovative and challenging occupations.

Requirements for the Major (95 units)

The major includes 95 units, 55 in lower division and 40 in upper division courses, with a total of 186 units required for the degree. Students must earn a grade of *C* or higher in all courses used to meet major requirements.

Lower Division Required Courses (55 units)

PHYS 201–205 General Physics (4,4,4,4,4)

CHEM 101-103 General Chemistry (5,5,5)

MATH 206–209 Calculus I–IV (4,4,4,4)

MATH 215 Differential Equations (4)

Upper Division Required Courses (6 units)

PHYS 306 Modern Physics (3)

CHEM 360 Writing for Chemists (3)

Upper Division Electives (20-30 units)

Select 20–30 units in upper division physics courses with approval of adviser.

Additional Electives (4-14 units)

Select 4–14 units in science or science related courses with adviser approval.

Bachelor of Science Degree in Physics

The Bachelor of Science degree, which requires a total of 187 units, may be used as preparation for graduate work or as a qualifying degree for professional employment. Selection of electives in astronomy provides substantial background for students planning graduate study in that field.

Programs in physics are built on a foundation of high school studies in mathematics and physical sciences. For completion of a Bachelor of Science degree program in 12 quarters, high school preparation is recommended in physics, chemistry, geometry, trigonometry, and algebra (two years).

In planning their university programs, students who wish to prepare for graduate study in physics are advised to include 12 units of French, German, or Russian, a portion of which will earn general education credit. Student participation in research is strongly encouraged.

General Program

Requirements for the Major (115 units)

The major consists of 115 units in physics and related fields, of which 51 are in lower division and 64 in upper division courses.

Students must earn a grade of C or higher in all courses used to meet major requirements.

Lower Division Required Courses (51 units)

PHYS 201-205 General Physics (4, 4, 4, 4, 4)
 CHEM 101-103 General Chemistry (5, 5, 5)
 MATH 206-209 Calculus I-IV (4,4,4,4)

Upper Division Required Courses (44 units)

PHYS 306 Modern Physics (3)
 PHYS 312 Basic Electronics (4)
 PHYS 410AB Mathematical Methods of Physics (4, 4)
 PHYS 420 Physics Computing (3)
 PHYS 425A Introduction to Theoretical Physics (4)
 PHYS 426AB Electricity and Magnetism (3, 3)
 PHYS 427 Thermodynamics (4)
 PHYS 432A Introductory Quantum Mechanics (3)
 PHYS 470-471 Advanced Physics Laboratory I, II (3, 3)
 CHEM 360 Writing for Chemists (3)

Upper Division Electives (20 units)

Selected with advisor approval

Option in Biophysics

The Bachelor of Science degree in Physics, Biophysics option, may be used as preparation for graduate work in biophysics or as a degree for professional employment.

Requirements for the Major (124 units)

The major with this option consists of 124 units in physics, biology, and related fields, of which 69 are in lower division and 49 in upper division courses. Students must earn a grade of C or higher in all courses used to meet major and option requirements.

Lower Division Required Courses (69 units)

PHYS 201-205 General Physics (4, 4, 4, 4, 4)
 BIOL 101, 102 Principles of Biology I, II (5, 5)
 CHEM 101-103 General Chemistry I-III (5,5,5)
 MATH 206-209 Calculus I-IV (4,4,4,4)
 MICR 200AB General Microbiology (5, 3)

Upper Division Required Courses (49 units)

PHYS 306 Modern Physics (3)
 PHYS 312 Basic Electronics (4)
 PHYS 410AB Mathematical Methods of Physics (4,4)
 PHYS 432A Introductory Quantum Mechanics (3)
 PHYS 443AB Biophysics (3, 2)
 CHEM 301ABC Organic Chemistry (3, 3, 3)
 CHEM 401 Physical Chemistry I (4)
 CHEM 402 or 403 Physical Chemistry II or III (4)
 CHEM 431AB Biochemistry (3, 3)
 CHEM 360 Writing for Chemists (3)

Electives (6 units)

Select courses in physics or chemistry, with advisor approval.

Minor in Physics

A Physics minor, available for students majoring in other fields, requires 59 units in physics and mathematics, of which 40 are in lower division and 19 in upper division courses. Students majoring in fields that require the same courses as those required for the Physics minor need take only those courses in the minor that are not incorporated into their major.

Requirements for the Minor (59 units)

Lower Division Required Courses (40 units)

PHYS 201-205 General Physics (4, 4, 4, 4, 4)
 MATH 206-209 Calculus I-IV (4, 4, 4, 4)
 MATH 215 Differential Equations (4)

Upper Division Required Course (3 units)

PHYS 306 Modern Physics (3)

Upper Division Electives (16 units)

Select physics courses with adviser approval.

The Credential Program

The Department of Physics and Astronomy administers the interdisciplinary Bachelor of Science degree in Natural Science which is approved by the California Commission on Teacher Credentialing for the Single Subject credential in Science. The program is described earlier in this chapter. In addition, the department offers the supplementary authorization in physics, described below, for holders of a Single Subject teaching credential in another field. Interested students should contact advisers in both the department and the Charter School of Education. Refer to the undergraduate **Charter School of Education** section of the **Academic Programs: School-based and University-wide** chapter for regulations governing all credential programs.

Supplementary Authorization for Single Subject Teaching Credential (32 units)

Holders of a Single Subject teaching credential issued by the state of California may supplement that credential with an authorization in physics for teaching physics at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with a grade of C or higher in each course. The course work must include one year sequence of courses in at least two of the subject areas. At least one of the courses must include a laboratory component. For other requirements governing issuance of this authorization, consult the Charter School of Education.

Complete or demonstrate proficiency in the following (32 units):

PHYS 201-205 General Physics (4,4,4,4,4)
 PHYS 306 Modern Physics (3)
 MATH 206, 207 Calculus I-II (4,4)

ASTR 152 Principals of Astronomy - Laboratory (1)

In addition to the above courses, an astronomy course—such as ASTR 151 is strongly recommended.

Graduate and Postbaccalaureate Programs

Master of Science Degree in Physics

The Master of Science degree in Physics is designed to prepare students for community college teaching, employment in industry, or further graduate study toward the doctorate in Physics.

Admission to the Program

Applicants must meet University requirements for admission to graduate study. Before undertaking required graduate courses, students must complete the equivalent of an undergraduate major in physics, and must have specific competence in the subjects covered in PHYS 306, 425A, 426A and 432A.

New graduate students must consult with the departmental graduate adviser *before registration* for assistance in planning their programs. Students should achieve classified graduate standing as early as practicable in their graduate study because it is prerequisite to the completion for credit of any courses in the degree program.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses. Advancement to candidacy is prerequisite to filing the thesis or taking the comprehensive examination. Students should apply for candidacy immediately upon completing 16 units of their official program with the required grade point average.

Required Courses (25 units)

PHYS 510AB	Mathematical Methods of Physics (4, 4)
PHYS 530AB	Classical Physics (4, 4)
PHYS 532AB	Quantum Mechanics (4, 4)
PHYS 542	Physics Research Conference (1) (Minimum of one quarter required.)

Options

Students select Option A or Option B for completion of their program. *Option A* emphasizes research and requires a thesis.

Option B emphasizes advanced study, which may be taken in a variety of physics areas. Option B programs may include research and directed study; such programs culminate in a comprehensive examination rather than a thesis. For special professional objectives, students may include graduate level work in engineering, another science or mathematics area in Option A or B, with approval of adviser.

The Interdisciplinary Studies Master's permits the combination of physics courses with courses in biology and chemistry in a program suited to interdisciplinary professional careers.

A. Research Option (20 units)

Required Courses (9 units)

Select from the following:

PHYS 598	Graduate Directed Study (1-4)
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PHYS 599	Thesis (1-4)
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Electives (11 units)

Select with adviser approval.

B. Course Option (20 units)

Required Courses (9–12 units)

Select three from following:

PHYS 411	Introduction to Astrophysics (3)
PHYS 412	Laboratory Applications of Minicomputer and Micro-computers (4)
PHYS 428	Statistical Physics (3)
PHYS 431	Modern Optics (4)
PHYS 433–434	Solid State Physics I, II (4, 4)
PHYS 443AB	Biophysics (3, 2)
PHYS 444	Nuclear Physics (4)
PHYS 471	Advanced Physics Laboratory II (3)
PHYS 491	Topics in Contemporary Experimental Physics (3)
PHYS 492	Topics in Contemporary Theoretical Physics (3)
PHYS 512AB	Modern Physics (4, 4)
PHYS 531	Topics in Electrodynamics (4)
PHYS 533	Solid State Theory (4)
PHYS 542	Physics Research Conference (1) (Repeat to total of 2 units)
PHYS 544	Theoretical Nuclear Physics (4)
PHYS 592	Seminar: Contemporary Physics (1-4)

Electives (8–11 units)

Select with adviser approval.

A maximum of 4 units of PHYS 598 may be included in the official program under this option. PHYS 597 and 599 may not be included in this option.

Comprehensive Examination (0 units)

All candidates must pass an examination administered by the department. For students who elect Option A (Research), this is an oral examination based on the thesis. For students who elect Option B (Course), this is a comprehensive examination (PHYS 596) about graduate level physics.

Normally, it will be a three-hour written examination, which may be supplemented by an oral examination at the discretion of the examining committee. The examination will be given at least twice a year as announced by the department.

Students should expect to take the comprehensive examination (PHYS 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

List of Courses - Undergraduate Level

Courses in Astronomy (ASTR)

Lower Division Courses

151 Principles of Astronomy (3)

Recommended corequisite: ASTR 152. Nonmathematical survey of modern astronomy, primarily for non-majors in science.

Properties and evolution of solar system, stars, and the universe. Lecture 3 hours. Together with ASTR 152, satisfies GE Block B2.

GE B2

152 Principles of Astronomy: Laboratory (1)

Corequisite or prerequisite: ASTR 151. Laboratory experiments, take-home observational assignments, and field trips designed to complement ASTR 151 lecture. Laboratory 3 hours. Together with ASTR 151, satisfies GE Block B2. **GE B2**

160 Space, Time and the Universe (4)

Current scientific understanding of the origin and evolution of the universe, presented in a non-mathematical form. Evolution of cosmological ideas through times and cultures. **GE B3**

Upper Division Courses**311 Elements of Modern Astronomy (3)**

(See PHYS 311 for course description.)

Courses in Physics (PHYS)**Lower Division Courses****101–103 Physics (4 each)**

Fundamental treatment of physics without use of calculus. Required for biological science majors; recommended for behavioral science majors. Biologists planning graduate work may find the 201-205 and 306 series in physics with calculus better suited to their needs. Lecture 3 hours, laboratory 3 hours for each course. **PHYS 101–103 = CAN PHYS SEQ A**

101: Prerequisite: Knowledge of elementary algebra and trigonometry. Mechanics of particles, rigid bodies; gravity; simple harmonic motion.

102: Prerequisite: PHYS 101. Waves, sound, fluids, thermal physics, kinetic theory, electrostatics.

103: Prerequisite: PHYS 102. Electricity and magnetism, light and optics, relativity, quanta, atoms, nuclei, and fundamental particles.

150 Principles of Physics (4)

Prerequisite: Ability to use simple algebraic equations. Introductory course, not for science or engineering majors. Basic concepts of mechanics, sound, heat, electricity, light, relativity, atomic and nuclear structure. Lecture 3 hours, laboratory 3 hours.

150P Physics Recitation (1)

Recitation for Physics 150 with emphasis on techniques of problem solving. Graded *CR/NC*.

154L,P Selected Topics in Physics (1–6)

Prerequisite: Specific prerequisites announced in *Schedule of Classes*. Topics of current interest in physics and astronomy, as announced in *Schedule of Classes*; relevance of physics in solving problems of modern technological society.

155 Nature of Physical World (4)

Primarily for non-majors in science. Concepts of physics illustrated through everyday phenomena. Topics include mechanical forces, fluids, heat, waves, nuclear theory, radiation, and energy in operation of living and nonliving systems.

156 Physics for the Twenty-first Century (4)

Current topics in physics that will play a significant role in social and economic issues of the 21st century. Fundamental physics concepts necessary to understand these topics. Lecture 3 hours, laboratory 3 hours. **GE B2**

157 Learning Science through Inquiry (4)

(also listed as BIOL 157)

Hands-on exploration by the scientific method of biology and physics topics, e.g. plant growth and sound. The emphasis is on individual and group learning through inquiry-based investigation and student directed research. Activity 6 hours. No credit toward Biology/Physics major or minor. **GE B3**

360 Ancient and Modern Views of the Universe (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Lecture 4 hours. Scientific theories of the origins and mechanics of the universe from ancient Mediterranean and Chinese cultures to present day Big Bang Cosmologies and the Inflationary Universe Theory.

411 Introduction to Astrophysics (3)

(See PHYS 411 for course description.)

488 Modern Topics in General Relativity (3)

(See PHYS 488 for course description.)

198 General Physics Laboratory (1)

Prerequisites: Approval of the Physics Chair and student's major adviser. Provides registration mechanism for transfer students who require lower division laboratory to complete requirements for lower division physics course.

201–205 General Physics (4 each)

Two-year sequence for physical science and engineering majors, using calculus. Lecture 3 hours, laboratory 3 hours.

201 General Physics Prerequisites: High school physics or permission of department; MATH 206 (may be taken concurrently). Vectors, mechanics of particles and rigid bodies, basic conservation laws of mechanics.

201P: Physics Recitation (1)

Prerequisite: Concurrent registration in PHYS 201. Recitation for PHYS 201 with emphasis on techniques of problem solving. Graded *CR/NC*.

202 General Physics

Prerequisite: PHYS 201; prerequisite or corequisite: MATH 207. Mechanical vibrations and sound, elementary thermodynamics.

202P: Physics Recitation (1)

Corequisite: PHYS 202. Recitation for PHYS 202 with emphasis on techniques of problem solving. Graded *CR/NC*.

203 General Physics

Prerequisite: PHYS 202. Prerequisite or corequisite: MATH 208. Elementary field theory, basic electricity and magnetism, DC and AC circuits.

203P: Physics Recitation

Corequisite: Concurrent registration in PHYS 203. Recitation for PHYS 203 with emphasis on techniques of problem solving. Graded *CR/NC*.

204 General Physics:

Prerequisite: PHYS 203. Prerequisite or corequisite: MATH 209. Continuation of electricity and magnetism including oscillations and waves; geometrical and physical optics.

204P Physics Recitation (1)

Corequisite: Concurrent registration in PHYS 204. Recitation for PHYS 204 with emphasis on techniques of problem solving. Graded *CR/NC*.

205 General Physics:

Prerequisite: PHYS 204; prerequisite or corequisite: MATH 209. Topics in modern physics including special relativity, elementary quantum physics, atomic theory, Schrödinger's equation.

Upper Division Courses**306 Modern Physics (3)**

Prerequisite: PHYS 205. Elementary quantum mechanics and its applications to atoms, molecules, nuclei, particle physics and solid state physics.

311 Elements of Modern Astronomy (3)

(also listed as ASTR 311)

Prerequisite: PHYS 205. Survey of modern astronomy, designed for students majoring in physical sciences, engineering, or mathematics.

312 Basic Electronics (4)

Prerequisite: PHYS 204. AC and DC circuits, solid-state circuits and devices, feedback, operational amplifiers. Lecture 3 hours, laboratory 3 hours.

313 Digital Electronics (4)

Prerequisite: PHYS 312. Design and use of pulse circuits and digital logic circuits. Fundamentals of computer design and computer programming. Lecture 3 hours, laboratory 3 hours.

333 Applied Modern Physics (4)

Prerequisites: MATH 215, PHYS 204. Selected topics in modern physics of solids including special relativity, wave mechanics, photons, phonons, applications to lasers, semiconductors, and other devices.

350N Evolution of Universe and Earth (4)

(also listed as GEOL 350N)

Prerequisite: GE natural science requirement. Origin and evolution of the universe, elements, stars, sun, the Earth, and life upon it.

363 The Creative Process in Physics (4)

Prerequisite: GE natural science requirement. The creative process in physics past and present. Individual achievements from Galileo to modern times, both experimental and theoretical; examination of how large scientific groups work; implications for future research.

396 Honors Studies in Physics (3)

Prerequisite: Admission to departmental honors program. Study leading to colloquium presentation required for conferral of Bachelor of Science degree with *Departmental Honors in Physics*.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: *PHYS 410AB, 425AB, 426AB, 427, 432AB, 470, 497, 499*.

410AB Mathematical Methods of Physics (4, 4)

Prerequisites: PHYS 204; MATH 209. Vector calculus, integration, series, complex variables, special functions, boundary value problems, calculus of variations. Emphasis on mathematical solution of problems in physics.

411 Introduction to Astrophysics (3)

(also listed as ASTR 411)

Prerequisites: PHYS 306; PHYS 311 recommended. Celestial mechanics, stellar interiors, atmospheres, and evolution; introductory cosmology.

412 Laboratory Applications of Minicomputers and Microcomputers (4)

Prerequisite: PHYS 313 strongly recommended. The use of minicomputers and microcomputers in physics laboratories and research. Fundamentals of data acquisition, interfacing, and data display. Lecture 2 hours, laboratory 6 hours.

420 Physics Computing (3)

Prerequisites: PHYS 410A and some programming experience recommended. Introduction to the use of computers in physics. The use of numerical recipes and symbolic manipulation programs for the solution of scientific problems. Lecture 2 hours, laboratory 3 hours.

425AB Introduction to Theoretical Physics (4, 4)

Prerequisites: PHYS 205, 410A. Application of mathematics to solutions of problems in physics with emphasis on general area of mechanics; Newtonian, Lagrangian, and Hamiltonian mechanics, field theory, special relativity.

426AB Electricity and Magnetism (3, 3)

Prerequisites: PHYS 205, 410A. Theoretical electricity and magnetism; properties of electric and magnetic fields, electromagnetic waves; emphasis on mathematical solution of problems.

427 Thermodynamics (4)

Prerequisites: PHYS 205, MATH 209. Corequisite: 410A. Introduction to thermodynamics and statistical physics; emphasis on mathematical solution of problems.

428 Statistical Physics (3)

Prerequisite: PHYS 427. Introduction to statistical mechanics, transport phenomena, fluctuations; emphasis on mathematical solution of problems.

431 Modern Optics (4)

Prerequisites or corequisites: PHYS 205, 410AB; recommended corequisite: PHYS 471. Introduction to modern optics; geometric optics by matrix methods, partial polarization, coherence, diffraction, quantum optics, and developments in laser technology.

432AB Introductory Quantum Mechanics (3, 3)

Prerequisites: PHYS 306, 410A. Introduction to quantum mechanics with applications; emphasis on mathematical solution of problems.

432A: Fundamentals of wave mechanics, wave packets, and the uncertainty principle. **Schrödinger's equation, operators and eigenfunctions, one-dimensional problems.**

432B: Central potentials, spectroscopy, spin and angular momentum, symmetry and conservation laws.

433 Solid State Physics I (4)

Prerequisites: PHYS 306; 427 recommended. Crystal structure, thermal and electrical behavior of insulators, metals, and semiconductors; band theory.

434 Solid State Physics II (4)

Prerequisites: PHYS 432A; 427, 433 recommended. Fermi surface, transport theory, superconductivity, magnetic resonance, optical properties, superfluidity, ion implantation.

443AB Biophysics (3, 2)

Prerequisites: Lower division biophysics or biochemistry program; CHEM 401 or PHYS 427.

443A: Physical aspects of living state. Lecture 3 hours.

443B: Theory of physical methods used in measurement of biological processes. Lecture 2 hours.

444 Nuclear Physics (4)

Prerequisite: PHYS 306. Nuclear phenomenology; alpha, beta, and gamma decays; nuclear reactions, nuclear energy, radiation detectors; radioactivity.

470 Advanced Physics Laboratory I (3)

Prerequisites: PHYS 306, 312. Instrumentation, techniques, and analytical evaluation involved in current experimental practice; basic experiments in vacuum techniques, and in classical, solid-state, and nuclear physics. Lecture 1 hour, laboratory 6 hours.

471 Advanced Physics Laboratory II (3)

Prerequisite: PHYS 470. Further advanced laboratory experience in contemporary fields. Experiments in nuclear physics, solid-state physics, cryogenics, optics, laser physics, spectroscopy, and related topics, as selected by instructor. Lecture 1 hour, laboratory 6 hours. May be repeated to maximum of 9 units.

488 Modern Topics in General Relativity (3)

(also listed as ASTR 488)

Prerequisites: PHYS 410AB; 425AB strongly recommended. Introduction to basic ideas of general relativity: physics of spacetime, relativistic stars, gravitational collapse and black holes, gravitational waves, testing of general relativity.

491 Topics in Contemporary Experimental Physics (3)

Prerequisites: Upper division or graduate standing in physics; others as listed in department announcement. Each section of course is a lecture series designed to present current developments in research; laboratory program may be included. Specific topics listed in *Schedule of Classes* and in department. May be repeated for credit.

492 Topics in Contemporary Theoretical Physics (3)

Prerequisites: Upper division or graduate standing in Physics; others as listed in department announcement. Each section of course is a lecture series designed to present current developments in theory. Specific topic listed in *Schedule of Classes* and in department. May be repeated for credit.

497 Undergraduate Research (1–4)

Prerequisite: Consent of faculty sponsor prior to registration. Laboratory work organized on a project basis open to a limited number of qualified physics majors each year. Emphasis on developing experimental ability and initiative of the student. May be repeated for credit.

499 Undergraduate Directed Study (1–4)

Prerequisites: Consent of faculty sponsor before registration and ability to work independently. Includes regular conferences with sponsor and preparation of a report. May be repeated for credit.

Graduate Level Courses (PHYS)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: **PHYS 410AB, 425AB, 426AB, 427, 432AB, 470, 497, 499.**

Classified graduate standing is required for admission.

510AB Mathematical Methods of Physics (4, 4)

Prerequisites: PHYS 410AB, 425A, 426A. Intended for beginning graduate students. Problem-solving using techniques current in theoretical physics. Series, integration, complex variables, integral transforms, matrices, eigenvalues, special functions, integral equations, numerical methods, probability and tensors.

512AB Modern Physics (4, 4)

Prerequisites: PHYS 425A, 426A.

512A: Hydrogen atom, atomic spectroscopy, electron shell structure, molecular binding, quantum statistics, and theory of solids.

512B: X-rays, properties of nuclei, radioactivity, nuclear forces, elementary particles, cosmic rays, nuclear astrophysics.

530AB Classical Physics (4, 4)

Prerequisite or corequisite: PHYS 510AB. Unified treatment of advanced topics in classical physics, including Lagrange's and Hamilton-Jacobi theory, special relativity, electrodynamics, and radiation theory.

531 Topics in Electrodynamics (4)

Prerequisite: PHYS 530AB. Continuation and expansion of topics covered in 530B. Emphasis on special topics and applications such as wave guides, scattering, diffraction, plasma physics, radiation damping, and self fields of a particle.

532AB Quantum Mechanics (4, 4)

Prerequisite or corequisite: PHYS 510AB.

532A: Formal structure of quantum mechanics, hermitian operators, Schrödinger theory and applications to soluble systems, angular momentum, and rotation matrices.

532B: Scattering theory and phase-shift analysis, matrix mechanics, spin, permutation symmetry and identical particles, and approximation methods.

533 Solid State Theory (4)

Prerequisites: PHYS 432A, 510AB; 433 recommended. Use of quantum field theory and group theory for development of solid state topics such as band theory, transport processes, and collective particle phenomena.

542 Physics Research Conference (1)

Weekly meetings of faculty and students for report and discussion of recent developments in physics. Includes presentations by faculty, advanced students, or invited speakers. May be repeated to maximum of 2 units. Graded CR/NC.

544 Theoretical Nuclear Physics (4)

Prerequisites: PHYS 510AB, 532A. Selected topics from theory of nuclear models, nuclear reactions, and symmetry properties of elementary particles.

592 Seminar: Contemporary Physics (1–4)

Prerequisite: Department approval. Current topics in theoretical and/or experimental physics. May be repeated to maximum of 16 units as subject matter changes.

597 Graduate Research (1–4)

Prerequisites: Consent of a faculty sponsor and departmental approval of project prior to registration. Independent research, under guidance of the faculty. May be repeated for credit. Graded CR/NC.

598 Graduate Directed Study (1–4)

Prerequisite: Consent of a faculty sponsor before registration. Independent study of advanced topics in the field; regular conferences with the sponsor. May be repeated for credit.

599 Thesis (1–4)

Prerequisites: Advancement to candidacy, consent of a faculty sponsor, departmental approval of topic prior to enrollment in course. Independent research resulting in a thesis. May be repeated to maximum of 9 units. Graded *CR/NC*.

Department of**Political Science**

School of Natural and Social Sciences

DEPARTMENT OFFICE

Engineering and Technology A523

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Faculty and students of the Department of Political Science engage in teaching and learning--critically and systematically--about government, politics, public affairs, and public policy in the United States and the world. Political Science courses embrace elements of the liberal arts, social sciences, and citizen education. We offer pre-professional education for a variety of careers in government, non-profit organizations, and business, as well as for admission to graduate and law school. The Department provides three options for our majors: General Political Science; Prelegal; and Public Administration. We also offer minors in Political Science, PreLaw, Public Administration, and World Politics to students majoring in other subjects.

The Department of Political Science offers undergraduate and graduate degree programs to prepare students for professional careers in public service, law, international relations, and teaching, and for more effective civic participation. The undergraduate program, the Master of Arts degree in Political Science and the Master of Science degree in Public Administration are described below.

The Faculty

Professors: J. Theodore Anagnoson, Naomi Joy Caiden, Edward S. Malecki, Jr., James A. Regalado, Benjamin W. Smith (*Chair*), Kenneth A. Wagner.

Associate Professors: Gregory D. Andranovich, Nadine S. Koch, Stephen K. Ma.

Assistant Professors: Scott Bowman, Siegrun Fox Freyss, Timothy C. Lim, Michael J. Siler.

Emeriti: Donald W. Bray, Robert Bascom Callahan, Eugene P. Dvorin, Edward M. Goldberg, Harry S. Hall, Stanley D. Hopper, John L. Houk, Thomas McEnroe, Arthur J. Misner, Thomas A. Rusch, Ake Sandler, Robert H. Simmons, Virgil H. Stevens

Undergraduate Programs**Bachelor of Arts Degree Political Science**

Three options are offered in the Bachelor of Arts degree in Political Science, each adapted to a different objective as follows:

The General Political Science option is a general program of undergraduate preparation for active participation in public life or for graduate study.

The Prelegal option provides undergraduate preparation for entrance into a graduate school of law.

The Public Administration option provides undergraduate preparation for career government service or positions in nonprofit organizations. This option may be coordinated with a public service internship (see *Cooperative Education*).

The department also participates in the interdisciplinary Bachelor of Arts degree in Social Science, described in the **Social Science** section of this chapter.

Requirements for the Major (77-89 units)

Major requirements combine a common set of six courses (25 units) taken by all political science students as well as 52 to 64 additional units to meet the requirements for one of the three options selected by majors in the department.

Core Requirements (21 units)

POLS 150	Government and American Society (4)
POLS 201	The Nature of Politics (4)
POLS 202	Introduction to Comparative Politics and International Relations (4)
POLS 203	Proseminar: Political Science (4)
POLS 281	Quantitative Methods in Political Science (5)

Upper Division Required Course (4 units)

POLS 490	Special Studies in Political Science (4)
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Upper Division Subfield Requirement

All students are required to take at least one course from each of the following six subfields. Since the specific course requirements vary for each of the three options, students should first select an option with the help of an adviser and select the appropriate courses for that option from each of the subfields:

- (1) American Politics: POLS 400, 402, 403, 404, 405, 406, 408, 409, 414, 415, 416, 417, 418, 419
- (2) International Relations: POLS 425, 426, 427, 429
- (3) Political Theory: POLS 431, 433, 435
- (4) Public Law: POLS 440, 441, 442, 443, 445, 446
- (5) Comparative Politics: POLS 450, 451, 452, 453, 455, 456, 457, 458
- (6) Public Administration and Policy: POLS 460, 461, 462, 463, 466, 468, 470, 472, 474, 475, 476, 479, 481

Options

The following courses are required in addition to the core and required courses described above.

General Political Science Option (52 units)**Upper Division Required Courses (44 units)**

Two courses from POLS 491, 492, 494, 496 (8)

Select two courses from each of three subfields (24 units)

Select one course from each of the three remaining subfields (12 units)

Upper Division Electives (8 units)

Select two courses from any of the six subfields in political science or with the approval of an adviser from upper division courses in a related discipline.

Prelegal Option (60 units)

Required for this option are 4 units of lower division courses and 56 units of upper division courses. Transfer students must have their Prelegal option program approved before beginning upper division courses; lower division students, as soon as possible after admission.

Lower Division Required Course (4 units)

ECON 150 or 201 or 202 (4)

Upper Division Required Courses (56 units)

HIST 479 (4)

PHIL 490 (4)

POLS 494 (4)

POLS 491 or 496 (4)

Select five courses from the Public Law subfield (20 units)

Select one course from each of the remaining five subfields (20 units)

Public Administration Option (64 units)**Upper Division Required Courses (64 units)**

POLS 496 (4)

POLS 491, 492 or 494 (4)

Select 460, 462, 466, 472, 479 and two other classes from the Public Administration and Policy subfield (28 units)

Select 405 as well as either 403 or 404, and one other class from the American Politics subfield (12 units)

Select one class from each of the four remaining subfields (16 units)

Minors in Political Science

The Department of Political Science offers four minor programs for students majoring in other fields. The General minor requires 28 units and may interest majors in such related fields as history, economics, geography, sociology, anthropology, or English. The Prelaw minor, which requires 20 units, is available to students who may be interested in attending law school. The minor in Public Administration requires 20 units and is designed for students who may be interested in government service at the local, state, or federal level. The World Politics minor requires 20 units and is designed for students whose career or personal interests would be enhanced by a study of international relations and comparative government. All students are expected to complete POLS 150 before beginning one of the minor programs in political science.

General Minor**Requirements for the Minor (28 units)****Lower Division Required Courses (8 units)**

POLS 201 The Nature of Politics (4)

POLS 202 Introduction to Comparative Politics and International Relations (4)

Upper Division Required Courses (20 units)

Select 5 additional POLS courses with adviser approval to fulfill the goal for which the minor was chosen.

Prelaw Minor**Requirements for the Minor (20 units)****Required Courses (12 units)**

POLS 440 Judicial Process (4)

POLS 441 American Constitutional Law: Federalism (4)

POLS 494 Proseminar: Legal Process (4)

Electives (8 units)

POLS 442

POLS 443

POLS 445 or 446

NOTE: Specific courses should be chosen in consultation with a prelaw adviser.

Public Administration Minor**Requirements for the Minor (20 units)****Required Courses (8 units)**

POLS 460 Foundations of Public Administration (4)

POLS 496 Proseminar: Public Administration (4)

Electives (12 units)

Select *one* from the following: POLS 403 or 405

Select *two* from following: POLS 461, 463, 466, 472

NOTE: Specific courses should be chosen in consultation with a public administration adviser.

World Politics Minor**Requirements for the Minor (20 units)****Required Course (4 units)**

POLS 250 World Politics (4)

Upper Division Required Courses (16 units)

Select *two* from following: POLS 425, 426, 427

Select *two* from following: POLS 450, 451, 452, 453, 455, 456, 457, 458

The Credential Program

The Bachelor of Arts degree in Social Science, administered by the Department of History has been approved for the Single Subject credential in Social Science by the California Commission on Teacher Credentialing. The program is listed under **Social Science** section of this chapter. In addition, the department offers two supplementary authorizations for persons who hold a Single Subject teaching credential in another field. These programs are described below.

Supplementary Authorizations for Single Subject Teaching Credential

Comparative Political Systems/International Relations (32 units)

Holders of a Single Subject teaching credential, issued by the state of California, may supplement that credential with an authorization for teaching comparative political systems/international relations at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with a grade of C or higher in each course. For other credential requirements, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (32 units):

Required Courses (16 units)

POLS 150	Government and American Society (4)
POLS 155	Critical Analysis of Political Communication (4)
POLS 202	Introduction to Comparative Politics and International Relations (4)
POLS 400	Power and Policy in Washington: Congress and the President (4)

Electives (16 units)

Select two from following (8 units): POLS 425, 426, 427, 457

Select one from following (4 units): POLS 446, 450

Select one from following (4 units): POLS 451, 452, 453, 456

U.S. Government and Civics (30 units)

Holders of a Single Subject teaching credential issued by the state of California may supplement that credential with an authorization for teaching U.S. Government and Civics at any grade level through grade 12 or in classes organized primarily for adults by completing the following program with a grade of C or higher in each course. For other credential requirements, consult the Charter School of Education.

Complete or demonstrate proficiency in each of the following courses (30 units):

Required Courses (14 units)

POLS 150	Government and American Society (4)
POLS 155	Critical Analysis of Political Communication (4)
POLS 200	California State and Local Government (2)
POLS 400	Power and Policy in Washington: Congress and the President (4)

Electives (16 units)

Select one from following (4 units): POLS 405 or 441

Select one from following (4 units): POLS 404, 417, 462

Select one from following (4 units): POLS 418, 435, 440

Select one from following (4 units): POLS 250 or 425

Graduate and Postbaccalaureate Programs

The Graduate Program

Two master's degree programs are offered in political science, in order to satisfy varying career objectives of graduate students. The Master of Arts degree emphasizes advanced studies for those interested in teaching, preparing for doctoral studies in political science, or preparing for political journalism, similar occupations, or various forms of citizen leadership. Our nationally accredited Master of Science degree in Public Administration provides present and future public service employees the administrative skills and knowledge necessary for competent direction of personnel, administration of financial controls, and coordination of agency functions.

Admission to the Programs

Application must be made to both the Department of Political Science and the University. Forms for both may be obtained from the department office.

Completed departmental applications with one copy of transcripts from all colleges attended and two letters of recommendation (normally from Cal State L.A. faculty in the case of recent Cal State L.A. graduates) must be received by the Department of Political Science before August 1 for admission to Fall Quarter, December 1 for Winter Quarter, February 1 for Spring Quarter, and May 1 for Summer Quarter. University applications and two copies of official transcripts from all colleges attended must be sent to the Admissions Office in accordance with University admission deadlines.

Master of Arts Degree in Political Science

The program is built on the foundation of an undergraduate government or political science major and is designed to

provide systematic study in political science and related fields at an advanced level.

Departmental Requirements

In addition to University requirements for admission to graduate study, applicants must have a *B* (3.0) grade point average in the last 90 quarter units attempted or in the undergraduate major in political science. Applicants who have not completed an undergraduate major in government or political science or whose grade point average is below that required for regular admission may be admitted at the discretion of the department's graduate admissions committee after completing prerequisite courses if necessary.

Requirements for the Degree (45 units)

A minimum of 45 units is required, with at least 23 in 500-level courses.

Fields

Three fields for the program are required, including political theory and American political studies. Students may choose as their third field either international relations and comparative political systems or, when appropriate, a related outside field of graduate study in addition to the two fields in Political Science. Programs must include at least eight units of 500-level courses in each of the three fields selected.

Required Fields

Political Theory Courses (12 Units)

POLS 509	Seminar: Foundations of Empirical Political Theory (4)
POLS 510	Seminar: Political Theory (4)
Select 4 units from the following:	
POLS 431	Classical Political Theory (4)

550 / Political Science

POLS 433 Modern Political Theory (4)
POLS 435 American Political Thought (4)

American Political Studies (12 Units)

POLS 505 Seminar: Contemporary American Political Studies (8)*

Select 4 units from the following:

- POLS 400 Power and Policy in Washington: Congress and the President (4)
- POLS 402 The Politics of Organized Labor (4)
- POLS 404 Urban Government and Politics (4)
- POLS 405 Intergovernmental Relations in the U.S. (4)
- POLS 406 Los Angeles City Politics (4)
- POLS 408 Political Socialization (4)
- POLS 409 Minority Politics in the U.S. (4)
- POLS 414 Politics and the Media (4)
- POLS 415 Political Sociology (4)
- POLS 417 Public Policy and the Economy (4)
- POLS 418 U.S. Political Parties, Campaigns, and Elections (4)
- POLS 419 Public Opinion and Polling (4)
- POLS 440 Judicial Process (4)
- POLS 441 American Constitutional Law: Federalism (4)
- POLS 442 American Constitutional Law: Civil Rights (4)
- POLS 443 American Constitutional Law: Civil Liberties (4)
- POLS 445 Judicial Behavior (4)

*This seminar is taken twice, under a different instructor and subject matter each time.

With adviser approval select 12 units of courses from either a related outside discipline or from:

International Relations And Comparative Political Systems (12 units)

- POLS 527 Seminar: Advanced Studies in International Relations (4)
- POLS 550 Seminar: Advanced Studies in Comparative Politics (4)

Take 4 units from the following:

- POLS 425 U.S. Foreign Policy in a Changing World (4)
- POLS 426 International Political Economy (4)
- POLS 427 International Relations (4)
- POLS 429 U.S. National Security Policy (4)
- POLS 450 European Politics (4)
- POLS 451 Latin American Politics (4)
- POLS 452 Politics of Asia (4)
- POLS 453 Politics of Africa and the Mid-East (4)
- POLS 454 Selected Topics in Comparative Politics (1-4)
- POLS 456 Politics in the Caribbean and Central American (4)
- POLS 457 Comparative Politics (4)
- ECON/POLS 526 Seminar: International Political Economy (4)
- ECON 560 Seminar: Economic Growth in Underdeveloped Areas (3)
- ECON 561 Seminar: International Economics (3)

Elective Units (4-6)

With adviser approval, select 4-6 units of additional courses in Political Science with POLS 580 strongly recommended for students who want to pursue a Ph.D. in Political Science.

Comprehensive Examinations or Thesis (0-5 units)

Either POLS 597 Graduate Research (3) and POLS 596 Comprehensive Exam (0) or POLS 599 Thesis (5)

Students not writing a thesis are required to take written comprehensive examinations to demonstrate their competence in the three selected fields, one of which may be in a related discipline, and in the overall field of political science. These students should expect to take the comprehensive examinations (POLS 596) after the quarter they complete all course work on their program and must comply with school and departmental requirements. Students will be allowed a maximum of two attempts to complete the comprehensive examinations successfully. Failure to pass the comprehensive examinations, or any portion thereof, will result in disqualification from the program.

A thesis, in lieu of written comprehensive examinations, may be authorized for exceptional students who present a proposal the department deems worthy of study. POLS 599 is required of all students authorized to submit a thesis. Students who have made one attempt on the comprehensive examinations may not change to the thesis option; students who have taken POLS 599 units may not change to the comprehensive examination option.

Master of Science Degree in Public Administration

The degree program in Public Administration consists of core requirements and other graduate work selected to assist students in meeting their study objectives.

Departmental Requirements

In addition to University and general departmental requirements for admission to graduate study, students whose grade point average in their last 90 units taken in undergraduate status falls between 2.5 and 2.75 will be required to complete a set of qualifying courses, 16 quarter units on their program, and to attain a minimum 3.0 grade point average in these courses as a condition of qualifying for classified graduate status and continuation in the program. Students who have not completed the corequisites listed below will include them among the qualifying courses.

Applicants who have failed to earn at least a 2.5 grade point average in their last 90 quarter units taken in undergraduate status will not be admitted to the M.S. degree program in Public Administration in the absence of clear and compelling evidence of their current capacity for satisfactory graduate academic performance.

Corequisites (8 units)

Completion of the following political science courses or their equivalent is required. Students must earn a minimum B (3.0) average in corequisites and must repeat any course they completed with lower than a C grade.

*POLS 403 State and Local Government (4) or

*POLS 404 Urban Government and Politics (4)

*POLS 460 Foundations of Public Administration (4)

*These may be taken as corequisites to the M.S. degree program and must be among the first five courses completed.

In addition, students whose GPA's in their last 90 quarter units are less than 2.75 must take a minimum of 8 units of corequisites from the following:

POLS 405	Intergovernmental Relations in the U.S. (4)
POLS 472	Organization and Management (4)
POLS 479	Computers in the Public Sector (4)

Requirements for the Degree (minimum 48 units)

A minimum of 48 units is required, including at least 24 in 500-level courses.

Required Internship or Field Project

In addition to course requirements, students must complete a one-year internship in public administration or an approved field project. This requirement may be waived if the candidate holds, or has held, a position entailing managerial or professional level of responsibility in a public or private nonprofit agency.

Required Courses (40 units)

POLS 530	Seminar: Policy Analysis (4)
POLS 561	Intergovernmental Relations (4)
POLS 563	Seminar: Personnel Administration (4)
POLS 566	Public Budgeting and Financial Administration (4)
POLS 572	Public Sector Organization and Management (4)
POLS 579	Public Sector Information Management and Computing (4)
POLS 580	Advanced Quantitative Methods in Public Administration (4)
POLS 590	Seminar: Philosophy of Public Service (4)

Select 8 units from the following:

POLS 539	Seminar: Policy Evaluation (4)
POLS 575	Seminar: Administrative Systems in Pacific Rim Nations (4) or
POLS 585	Seminar: Regulation, the Environment and California Public Policy (4)

Electives (8 units)

Take one 400-level and one 500-level course, with adviser approval:

ECON 405	Economics of Public Utilities and Regulation (4)
ECON 433	Public Finance (4)
POLS 463	Public Personnel Administration (4)

Electives (cont'd)

POLS 468	Administration of Human Resource Programs (4)
POLS 470	Public Relations in Government (4)
POLS 474	Organization Behavior and Development (4)
POLS 475	Comparative Administrative Systems (4)
POLS 476	Administrative Law (4)
POLS 481	Managerial Computing in the Public Sector (4)
POLS 565	Public Sector Labor Relations (4)
POLS 567	Seminar: The Third Sector and Nonprofit Organizations (4)
POLS 568	Seminar: Community Development Administration (4)
POLS 583	Seminar: Health Politics and Policy (4)
POLS 587	Seminar: Aging Policy, Politics, and Administration (4)
POLS 591	Seminar: Administrative Theory and Behavior (4)
POLS 595	Selected Issues in Public Administration (4)
POLS 598	Graduate Directed Study (4)

Comprehensive Examinations or Thesis (0, 5 units)

POLS 596	Comprehensive Examination (0), or
POLS 599	Thesis (5)

Students should expect to take the comprehensive examinations (POLS 596) in or after the quarter in which they complete all course work on their program and must comply with school and departmental requirements.

Students will be allowed a maximum of two attempts to complete the comprehensive examinations successfully. Failure to pass the comprehensive examinations, or any portion thereof, will result in disqualification from the program.

A thesis, in lieu of the written examinations, may be authorized for exceptional students who present a proposal the department deems worthy of study, but only if the students can indicate in an oral examination competence in the field of public administration. POLS 599 is required of all students planning to complete a thesis. Four (4) units of POLS 599 may be taken in place of one of the elective courses.

List of Courses (POLS) - Undergraduate Level

Lower Division Courses

120 Politics of Everyday Life (4)

Learning how to negotiate a lifetime of personal politics: the politics of family, peers, and work. **GE E**

150 Government and American Society (4)

American political system with emphasis on role and function of government in social context of a democratic political system. Satisfies U.S. Constitution and California state and local government requirements. Not open to students who have completed an introductory college course in U.S. government. **CAN GOVT 2, GE AM**

155 Critical Analysis of Political Communication (4)

Critical analysis of ideological messages, political biases, and manipulative devices in all forms of communication, from newspaper reporting to scholarly texts, from films to television news. **GE A3**

200 California State and Local Government (2)

Functions and structure of California state and local government units, current aspects of governmental process and problems in state. Satisfies California state and local government requirement. **GE AM**

201 The Nature of Politics (4)

Prerequisite: POLS 150. Who gets what, when, and why. Why does it matter? What can be done about it? What ought to be done about it?

202 Introduction to Comparative Politics and International Relations (4)

Comparative government and politics, international relations.

203 Proseminar: Political Science (4)

Prerequisites: POLS 150, ENGL 102*. Analysis of oral and written political arguments. Special projects in directed research. May be taken concurrently with POLS 202.

*students subject to catalogs earlier than 1993-95 satisfy this prerequisite with ENGL 101 or 190.

250 World Politics (4)

Major issues and problems among nations; international organization and conflict resolution. **GE D**

254 Special Topics in Political Science (1-4)

Current topics of special interest in political science and related disciplines, as announced in *Schedule of Classes*. May be repeated to maximum of 8 units.

281 Quantitative Methods in Political Science (5)

Prerequisite: POLS 150; MATH 091 or satisfactory performance on mathematics placement examination given during registration. Descriptive and inferential statistics; emphasis on practical applications in political science. Distributions on a single variable, associations between two variables, tests of hypotheses; bivariate computer analysis, including individual projects. Lecture 4 hours, laboratory 2 hours.

Upper Division Courses

POLS 150 is prerequisite to all upper division POLS courses except 310, 322, 330, 342, 351, 358, 360, 426, and 474.

310 Gender, Politics, and Government (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. The influence of gender and sexual orientation on political behavior, on elective and appointive government institutions, and on public policies; historical reasons for gender-related differences, political movements to overcome discrimination, and analysis of emerging trends.

GE Theme C

322 Global Change and the Human Condition (4)

(also listed as GEOG 322)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Explores the politics of global environmental concerns or the procedures by which states and organizations address pressing environmental problems.

GE Theme G

330 Politics of Aging (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Effects of older Americans on the political system. Political and policy analysis of retirement, Social Security, Medicaid, disability programs. Problems of intergenerational equity.

GE Theme F

342 Rights and Justice in Communication and Politics (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Freedom of communication, political rights, diversity, and justice: the evolution of these rights in the United States; analysis of contemporary problems, global implications, and potential solutions in our multicultural world.

GE Theme H

351 Beyond Conflict, Violence, and War (4)

(also listed as HIST 351)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Nature, functions, and interrelationship of conflict, violence, and war: strategies of conflict resolution and peace examined in a global setting through theory and case studies.

GE Theme B

358 Environmental Policy and Politics (4)

(also listed as HIST 358)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Global Environmental problems, United Nations programs, U.S. environmental movement, governmental policies on environment, politics, and the policy formations process. The role of government and policy in environmental sustainability.

GE Theme G

360 Dynamics of Change in the Developing World (4)

(also listed as LAS 360 and PAS 360)

Prerequisites: Completion of G. E. Basic Subjects (Block A) and one course from Block D. How the Third World developed and how it is changing in relation to the rest of the world.

GE Theme A

395 Community Service in Political Science (1-4)

Prerequisites: prior approval of Political Science adviser in consultation with EPIC director, acceptance by community agency. Participation in work of community agency or activity utilizing professional or vocational skills in service to community. Credit not applicable toward political science major. May be repeated to maximum of 9 units. Graded CR/NC.

400-level Courses

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: M.A.—Political Science: POLS 470: M.S.—Public Administration: POLS 491, 492, 494, 496.

400 Power and Policy in Washington: Congress and the President (4)

Structure, functioning, and interaction between Congress and the presidency.

402 The Politics of Organized Labor (4)

Organized labor in American politics; union structures; special interest and class perspectives; political action; current problems; changing needs; labor laws and reforms.

403 State and Local Government (4)

Nature of state politics, analysis of legislative, judicial, and administrative organization and process; local government in metropolitan areas; all with reference to California.

404 Urban Government and Politics (4)

Problems of political influence, public policy, intergovernmental relations, and formal structure in American urban areas.

405 Intergovernmental Relations in the U.S. (4)

Introduction to American intergovernmental relations: American Federalism; national-state, state-state, and state-local relationships; powers and limitations of American governments.

406 Los Angeles City Politics (4)

Los Angeles within federal system; structures and functions; charter examination; policy issues; dominant individuals; social classes; minority influence; political coalitions; public vs. private sector relations and conflict.

408 Political Socialization (4)

How people acquire political information, values, orientations, and behavioral predispositions; the socialization process throughout the individual's life cycle; emphasis on subcultural and gender differences.

409 Minority Politics in the U.S. (4)

Overview of ethnic politics in U.S. from both historical and contemporary perspectives; American Indian, Asian, black, and Hispanic political movements in U.S.

414 Politics and the Media (4)

Relationships between government and the media; news-gathering techniques, journalist/government relations, role of media in presidential campaign politics.

**415 Political Sociology (4)
(also listed as SOC 415)**

Prerequisite: POLS 150 or SOC 201. Social factors underlying democracy and totalitarianism, social movements and revolutions, conflict/conflict resolution, voting behavior, political socialization.

416 Political Chief Executives (4)

The president, the governor, and the mayor; politics of elected and appointed executives.

417 Public Policy and the Economy (4)

Prerequisite: POLS 150; also recommended: ECON 202. Interrelationships between public policy and economic affairs.

418 U.S. Political Parties, Campaigns, and Elections (4)

Role of political parties in campaigns and elections; role of the media, consultants, pollsters, and parties in recruiting, nominating, and electing candidates.

419 Public Opinion and Polling (4)

Elections as a means of expressing public opinion; mass media role in forming and reflecting public opinion; modern techniques for measuring public opinion.

425 U.S. Foreign Policy in a Changing World (4)

Theory and practice of contemporary American foreign policy.

**426 International Political Economy (4)
(also listed as ECON 426)**

Prerequisites: Four units each in POLS and ECON. Interaction of politics and economics in the international arena.

427 International Relations (4)

Theories and practice of international politics.

429 U.S. National Security Policy (4)

The nexus between politics and military force in coercive diplomacy and limited war; nuclear weapons, arms control, and proliferation; the budgetary and operational consequences of defense organization.

431 Classical Political Theory (4)

Exposition and critical analysis of ideas of major political thinkers from Plato to 17th century.

433 Modern Political Theory (4)

Studies in character of contemporary normative political theory; systematic political theories of Liberalism, Conservatism, Nationalism, Marxism, Communism, Fascism, Socialism, Democracy, and Irrationalism.

435 American Political Thought (4)

American political ideas from Puritan period to present.

440 Judicial Process (4)

Judicial process as function of American government; survey of schools of legal thought, role of legal theory in functioning of courts.

441 American Constitutional Law: Federalism (4)

Recommended prerequisites for POLS majors in Prelaw option: POLS 440, HIST 479. Role of Supreme Court in American government; judicial review; relationship between national and state governments, especially in areas of commerce and taxation; relationship between executive, legislative, and judicial branches of government.

442 American Constitutional Law: Civil Rights (4)

Recommended prerequisite for POLS majors in prelaw option: POLS 440. The constitutional rights of persons arising from the First and Fourteenth Amendments to the constitution with particular emphasis on equal protection of the laws and discrimination, and the right to privacy.

443 American Constitutional Law: Civil Liberties (4)

Recommended prerequisite: POLS 440. The constitutional liberties of persons arising from the First and Fourteenth Amendments to the constitution with particular emphasis on freedom of speech, press, religion, assembly, and petition.

445 Judicial Behavior (4)

Recommended prerequisite for POLS majors in prelaw option: POLS 440. Contemporary approaches to study of judicial behavior, including judicial role, decision making, small group analysis, socialization, and analysis of judicial voting behavior.

446 Comparative Legal Systems (4)

Recommended prerequisite for POLS majors in prelaw option: POLS 440. Survey and systematic analysis of selected legal systems and functional relationships with social systems; emphasis on social context of legal systems and comparative approach to their study.

450 European Politics (4)

Course content varies, focusing on contemporary politics in selected European countries. May be repeated to maximum of 8 units as topic varies.

451 Latin American Politics (4)

Course content varies, focusing on contemporary politics of selected Latin American countries. May be repeated to maximum of 8 units as topic varies.

452 Politics of Asia (4)

Course content varies, focusing on contemporary politics in selected Asian countries. May be repeated to maximum of 8 units as topic varies.

453 Politics of Africa and the Mid-East (4)

Course content varies, focusing on contemporary politics of selected African and Middle Eastern nations. May be repeated to maximum of 8 units as topic varies.

454 Selected Topics in Comparative Politics (1-4)

Selected topics in comparative government as announced in the schedule of classes. May be repeated to a maximum of 8 units as topic varies.

455 Canadian Politics: A Comparative Perspective (4)

Prerequisite: POLS 202. Examining and evaluating government and politics in Canada and reviewing recent development in the relationship between Canada and the United States. Course includes research and writing projects in comparative politics.

**456 Politics of the Caribbean and Central America (4)
(also listed as PAS 456)**

Political development and dependency in the Caribbean and Central America.

457 Comparative Politics (4)

Approaches, theories, and current research in comparative politics.

458 Politics in Asian-American Im/migration (4)

Prerequisite: POLS 202. Examining and evaluating the politics of Asian-American immigration in the United States, and reviewing the impact of Asian Americans on political development at home and abroad. Course includes research and writing projects in comparative politics.

460 Foundations of Public Administration (4)

Politics of administrative power; methods of controlling bureaucracy; changing agency environments; dynamics and processes of public management; government as a career.

461 Dynamics of Urban Administration (4)

Politics of governing urban U.S.; problems caused by multiple governmental and administrative bodies, overlapping jurisdictions, tax revolts; existing system's capabilities to respond to those problems.

462 Public Policy Analysis (4)

Public policy analysis: nature of public problems, issue definition, implementation, program impact and evaluation analysis.

463 Public Personnel Administration (4)

Recommended prerequisite: POLS 460. Merit system concept growth, civil service development; recruitment procedures and examinations, position classification, salary structures, retirement plans, inservice training, supervision, employee organizations.

466 Public Financial Administration (4)

Recommended prerequisites: courses in accounting and statistics. Role of financial administration and budgeting in determination of governmental policy, administrative planning and management, control of government operations, intergovernmental relations, and relation to private economy.

**467 The Third Sector and Nonprofit Organizations (4)
(also listed as YAA 467)**

Starting and managing nonprofit enterprises; differences between public, nonprofit, and for-profit organizations; nature and scope of the third sector; grant writing project.

468 Administration of Human Resource Programs (4)

Recommended prerequisite: POLS 460. Program details and administrative issues of selected income maintenance programs, including Social Security, workers compensation, public assistance, Medicare, Medicaid, food stamps, unemployment insurance, and state disability insurance.

469 Administration of Human Service Programs (4)

Recommended prerequisite: POLS 460. The course examines the changing roles and patterns of funding, organization, and providing community services by public agencies and not-for-profit organizations.

470 Public Relations in Government (4)

Recommended prerequisite: POLS 460. Public relations as a staff function; roles of information officer, public service features, public information counters; agency case histories.

472 Organization and Management (4)

Recommended prerequisite: POLS 460. Organization structure, human factors in organization, dynamics of organizational change, internal adaptability to external environment; problems, limitations, and trends in governmental organization and management.

474 Organization Behavior and Development (4)

Application of behavioral science findings to organizations; psychological methods used by various change agents; types and uses of organization development practices.

475 Comparative Administrative Systems (4)

Recommended prerequisite: POLS 460. Theories of comparative administrative systems analysis and application to selected administrative systems in U.S. and foreign countries; emphasizes relationships between administrative institutions and environment.

476 Administrative Law (4)

Recommended prerequisites: POLS 440, 460. Process in administrative adjudication, regulation, and rule making; duties and liabilities of public officers, appeal procedures, trends in regulation.

479 Computers in the Public Sector (4)

Prerequisites: CS 190; also recommended: POLS 460. Public sector computing and applications; governmental issues regarding computing.

481 Managerial Computing in the Public Sector (4)

Prerequisite: POLS 479. Managerial computing in the public sector, including project management, data base management systems, budget analysis using spreadsheets and other managerial tools.

490 Special Studies in Political Science (4)

Intensive study of selected areas and special problems in political science. May be repeated as subject matter changes.

491 Proseminar: American Government and Politics (4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); for all POLS majors: POLS 203. Individual and group research and writing projects in American politics and theory.

492 Proseminar: International Relations and Comparative Politics (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); for all POLS majors: POLS 203. Individual and group research and writing projects in international relations and comparative politics.

494 Proseminar: Legal Process (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); for POLS majors: POLS 203. Individual and group research and writing projects in public law.

496 Proseminar: Public Administration (4)

Prerequisites: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR); for all POLS majors: POLS 203. Individual and group research and writing projects in public administration.

499 Undergraduate Directed Study (1-4)

Prerequisite: Department approval. Project selected in conference with sponsor before registration; progress meetings held regularly. May be repeated to maximum of 8 units.

Graduate Courses (POLS)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: M.A.–Political Science: POLS 470; M.S.–Public Administration: POLS 491, 492, 494, 496.

Classified graduate standing is required for admission to all 500-level courses..

505 Seminar: American Political Studies (4)

Prerequisites: Baccalaureate; superior academic performance in political science. Analysis of selected issues and problems of national significance in the U.S. May be repeated as subject matter changes.

509 Seminar: Foundations of Empirical Political Theory (4)

Prerequisite: Departmental approval. Values and limitations in past and current applications of philosophy and methods of science to study of politics.

510 Seminar: Political Theory (4)

Prerequisites: POLS 431, 433, or 435. Selected topics in political philosophy. May be repeated as subject matter changes.

526 Seminar: International Political Economy (4) (also listed as ECON 526)

Prerequisite: ECON/POLS 426 or ECON 406 plus POLS 427. Research and analysis of the interactions of politics and economics in the international arena.

527 Seminar: Advanced Studies in International Relations (4)

Prerequisites: POLS 427 plus 4 units in POLS 425, 426 or 429, or LAS 424. Selected topics international politics. May be repeated for a total of 8 units, with advisor approval, as subject matter changes.

530 Seminar: Policy Analysis (4)

Prerequisite: POLS 462. Concepts and techniques of policy analysis, including nature of public problems, initiation, estimation, implementation, analysis of impacts and evaluation.

531 Seminar: Latin American Government (4)

Prerequisite: POLS 451. Analysis of selected topics in Latin American politics.

539 Seminar: Policy Evaluation (4)

Concepts and techniques of policy evaluation. Individual projects.

550 Seminar: Comparative Politics (4)

Prerequisites: POLS 457 plus 4 units in POLS 450-456. Selected topics in comparative politics. May focus on specific geographic areas, particular political processes, and/or specific stages of political development.

560 Seminar: Public Administration (4)

Prerequisite: POLS 460. Advanced studies in administrative organization; delegation, field coordination, communication, accountability, and controls; analysis of values process, structures, and arrangements in large scale governmental management; trends in administrative research.

561 Intergovernmental Relations (4)

Prerequisites: POLS 403 or 404; 460. Dynamics and patterns of vertical and horizontal intergovernmental relations; challenges to the contemporary urban administrator in dealing with other governments at all levels.

563 Seminar: Advanced Problems in Public Personnel Administration (4)

Prerequisite: POLS 463. Case studies of personnel problems encountered in governmental agencies; examination of varying roles of boards, commissions, and official legislative bodies; new frontiers in personnel research and personnel legislation.

565 Public Sector Labor Relations (4)

Prerequisites: POLS 403 or 404; 460. Collective bargaining in federal, state and local government, with emphasis on California. Differences between the public and private sectors, bargaining legislation, negotiations, impasse resolution.

566 Public Budgeting and Financial Administration (4)

Prerequisites: POLS 403 or 404; 460. Issues and problems in budget authorization, execution, and control, including public policy implications; special emphasis on program and performance budgeting.

567 Seminar: The Third Sector and Nonprofit Organizations (4)

Study of increasingly integrated relationship between government and third sector service providers; professional management of nonprofit organizations in a complex environment; grant writing project.

(Students who have taken POLS 467 cannot receive credit for POLS 567.)

568 Seminar: Community Development Administration (4)

Prerequisite: Instructor consent. Theory and process of planned development; role of administration in formulating and implementing development goals at all political community levels; planning, strategy, obstacles, assistance, development of competent personnel, institution-building.

572 Public Sector Organization and Management (4)

Prerequisites: POLS 403 or 404; 460. Organization structures and theories of management in the public sector. Decision-making, human relations, goal setting, leadership in government organizations.

575 Seminar: Administrative Systems in Pacific Rim Nations (4)

Prerequisites: POLS 403 or 404; 460. Comparison of public sector administrative systems in selected Pacific Rim nations. Analysis of the impact of the administrative environment on governmental institutions.

579 Public Sector Information Management and Computing (4)

Prerequisites: POLS 403 or 404; 460, 479. Public sector computer management trends, issues and applications. Issues of particular concern to public sector managers; information policy and public access, privacy, security, computer crime.

580 Advanced Quantitative Methods in Public Administration (4)

Prerequisites: POLS 403 or 404; 460, 281 or its equivalent. Application of quantitative methods to government data, experimental and non-experimental research designs, sampling, graphical data analysis, computerized data analysis. Individual projects.

583 Seminar: Health Politics and Policy (4)

Health politics and policy at the national level and in California. Role of Congress, executive branch, media, interest groups, and industry. Policy tradeoffs, design, implementation, and evaluation of health policy.

585 Seminar: Regulation, the Environment and California Public Policy (4)

Prerequisites: POLS 403 or 404; 460, 561. The interrelationships among regulatory policies, environmental problems and public policy in California.

587 Seminar: Aging Policy, Politics, and Administration (4)

Older Americans in the political system. Political and policy analysis of retirement, Social Security, Medicare, Medicaid, disability programs. Discussion of administration and policy alternatives, including privatization.

590 Seminar: Philosophy of Public Service (4)

Prerequisites: POLS 560 *or* 561, instructor consent. Past and present philosophies of public service; bureaucracy in modern society; social-psychological and ethical aspects of public service; case studies of decision making.

591 Seminar: Administrative Theory and Behavior (4)

Prerequisite: POLS 472. Analysis of administrative theory and utilization of advances in behavioral research as they apply to studies of administrative process and organization.

595 Selected Issues in Public Administration (4)

Prerequisite: Twelve units in public administration, including one seminar. Presentation and discussion of selected issues and trends in administrative processes at all levels of government. Topics change. May be repeated to maximum of 8 units with adviser approval.

597 Graduate Research (1-3)

Prerequisites: Consent of faculty sponsor and graduate adviser; proposed study must be approved prior to registration. Directed research on a problem in Political Science from conception through design, data gathering, analysis and final written report. May be repeated to a maximum of 9 units for credit. Graded *CR/NC*.

598 Graduate Directed Study (1-5)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated.

599 Thesis (1-5)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. Graded *CR/NC*.

Department of**Psychology**

School of Natural and Social Sciences

DEPARTMENT OFFICE

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Psychology is the scientific study of the behavior and mental and emotional processes, of human beings, as well as the behavior of animals as it applies to humans. The field also encompasses the methods, procedures, and instruments necessary for the study of these processes.

Psychology majors do volunteer work or are employed at various levels of the job market, including community organizations, social service agencies, county and state civil service, business and industrial companies, personnel and public relations firms, hospitals, research centers, the professions, and many others.

The Department of Psychology offers programs leading to Bachelor of Arts, Master of Science, and Master of Arts degrees. The graduate degrees are described in the Graduate Programs section.

The Faculty

Professors: Burton L. Alperson, Desdemona Cardoza, Nancy Cobb, Stuart P. Fischhoff, David Fitzpatrick, Herbert Goldberg, Harold J. Gottlieb, Estelle H. Gregory, Jean P. LaCour, Z. Barry Lowenkron, David R. Perrott, Jean S. Phinney, Michael W. Roffe (Chair), David J. Weiss.

Associate Professors: Anson J. Levine, Gloria J. Romero, Michael Louis Wapner.

Assistant Professors: Fary M. Cachelin, Ramani S. Durvasula, Mitchell Eisen, Kimberly King, Eric Kohatsu, Pamela C. Regan.

Emeriti: Richard S. Balvin, Richard G. Cannicott, Annette Ehrlich, Herbert Goldenberg, Thomas M. Graham, John V. Haralson, Patricia M. Hodges, Roland D. Hutchinson, John M. Leiman, Seymour Levitan, Robert T. Lewis, Irwin Lublin, Herbert Moskowitz, Bernard J. Somers, Judith E. Stevens-Long, Alice C. Thompson.

Undergraduate Programs**Bachelor of Arts Degree**

The Bachelor of Arts degree in Psychology is both preparations for advanced study and a terminal liberal arts degree.

Advisement

Psychology majors should consult an adviser and file an official program, preferably in their first quarter of attendance, but under no circumstances later than the first quarter of their junior year.

Requirements for the Major (73-81 units)

The major requires a lower division core of 14 units, an upper division core of 19 to 20 units and 40 to 47 units of electives from designated categories as explained below. All Psychology majors must: (1) Receive a grade of C- or better in PSY 202 (or equivalent) in order to enroll in PSY 302; (2) receive a grade of C- or better in PSY 302 to enroll in PSY 304A; and (3) receive a grade of C- or better in PSY 304A in order to graduate in the major.

Lower Division Core Courses (14 units)

PSY 150 Introductory Psychology (4)
 PSY 170 Introductory Physiological Psychology (4)
 PSY 171 Laboratory Demonstration in Physiological Psychology (1)
 PSY 202 Descriptive Statistics in Psychology (5)

Upper Division Core Courses (19-20 units)

PSY 302 Statistical Methods in Psychology (5)
 PSY 304A Experimental Psychology (6)
 PSY 308 Theories and Systems in Psychology (4)
 One course from Group V below (4-5 units)

Upper Division Electives (40-47)

Select one Group from Groups I-IV as your area of emphasis.
 Select four courses from your area of emphasis (16-20 units).
 Select two courses each from remaining three Groups (24-27 units).

Group I : Developmental

PSY 326 Psychological Factors in Marriage (4)
 PSY 362 Psychological and Psychosocial Developmental Stages in Maturity and Aging (4)
 PSY 388 Gender Differences
 PSY 403 The Psychosocial Dynamics of Child Maltreatment and Family Violence (4)
 PSY 412A Psychology of Human Development: Infancy and Childhood (4)
 PSY 412B Psychology Human Development: Adolescence and Young Adulthood (4)
 PSY 419 Psychology of Sex Roles (4)
 PSY 426 Family Therapy Dynamics and Perspectives (4)
 PSY 428 Introduction to Analysis of Behavior (4)

Group I: Developmental (cont'd)

PSY 433 Psychology of Cognitive Development (4)

PSY 462 Psychology of Human Development: Maturity and Aging (4)

Group II: Social /Community

PSY 307 Physiology and Psychology of Violence and Aggression (4)

PSY 309 Human Violence and Individual Change (4)

PSY 326 Psychological Factors in Marriage (4)

PSY 395 Field Experience in Psychology (1-4)

PSY 402 Media Psychology (4)

PSY 403 The Psychosocial Dynamics of Child Maltreatment and Family Violence (4)

PSY 407 The Psychological Impact of Film (4)

PSY 415 Interpersonal Relationships (4)

PSY 419 Psychology of Sex Roles (4)

PSY 422 Social Psychology (4)

PSY 426 Family Therapy Dynamics and Perspectives (4)

PSY 440 Theory and Measurement of Attitudes and Opinions (4)

PSY 445 Community Psychology (4)

PSY 450 Principals of Health Psychology (4)

PSY 451 Applied Health Psychology (4)

PSY 464 Psychology and the Law (4)

PSY 465 Multicultural Psychology: Current Issues and Research (4)

PSY 485 Directed Field Experience in Community Clinical Psychology (4)

Group III:

Cognition/Learning/Motivation/Physiological

PSY 323 Psychology of Emotion (4)

PSY 401 Physiological Psychology (4)

PSY 421 Psychology of Learning and Behavior (4)

PSY 423 Motivation and Emotion (4)

PSY 424 Cognitive Psychology (4)

PSY 425 Sensation and Perception (4)

PSY 428 Introduction to Analysis of Behavior (4)

PSY 433 Psychology of Cognitive Development (4)

PSY 490 Human Memory (4)

Group IV: Individual/Abnormal

PSY 307 Physiology and Psychology of Violence and Aggression (4)

PSY 309 Human Violence and Individual Change (4)

PSY 388 Gender Differences (4)

Group IV: Individual/Abnormal (cont'd)

PSY 403 The Psychosocial Dynamics of Child Maltreatment and Family Violence (4)

PSY 410A Abnormal Psychology (4)

PSY 410B Abnormal Psychology (4)

PSY 415 Interpersonal Relationships (4)

PSY 418A Introduction to Theories of Personality (4)

PSY 418B Review of Research in Personality (4)

PSY 419 Psychology of Sex Roles (4)

PSY 436A Counseling and Psychotherapy Theories, Methods, and Issues (4)

PSY 438 Introduction to Clinical Psychology (4)

PSY 450 Health Psychology (4)

PSY 451 Applied Health Psychology (4)

PSY 464 Psychology and the Law (4)

Group V: Methodology

PSY 304B Experimental Psychology (5)

PSY 409 Computer Techniques for Psychology (4)

PSY 411 Research Methodology in Psychology (4)

PSY 414 Analysis of Variance (4)

PSY 417 Single Case Research Design (4)

PSY 429 Multiple Regression/Correlation Analysis (MRCA) (5)

PSY 431 Survey of Psychological Tests (5)

PSY 465 Multicultural Psychology: Current Issues and Research (4)

PSY 491 Methods of Data Analysis (5)

Minor in Psychology

The Psychology minor, available to students majoring in other fields, requires 39 units of lower and upper division psychology courses.

Requirements for the Minor (39 units)

Lower Division Required Courses (13 units)

PSY 150 Introductory Psychology (4)

PSY 170 Physiological Psychology (4)

PSY 202 Descriptive Statistics in Psychology (5)

Upper Division Required Courses (15 units)

PSY 302 Statistical Methods in Psychology (5)

PSY 304A Experimental Psychology (6)

PSY 308 Theories and Systems in Psychology (4)

Electives (11 units) Select with adviser assistance

Graduate and Postbaccalaureate Programs

The Graduate Program

The Department of Psychology offers both Master of Arts and Master of Science degrees. The M.A. degree has either a general option for students pursuing graduate work without a specific career objective or A research option for students specifically emphasizing a predoctoral, research orientation.

The M.S. degree prepares students for such professions as marriage, family, and child counseling; applied behavior analysis; and community college teaching.

Admission to the Program

Applicants must have completed an undergraduate major in psychology and achieved a grade point average of 2.75 or above in the last 90 quarter units of undergraduate work at an accredited institution. Applicants must apply to the Department of Psychology and to the University Admissions Office. Application forms are available in the department graduate studies office. Completed applications and transcripts from all colleges and universities attended (except Cal State L.A.) must be received by the department as well as the admissions office before action on admission can be ensured.

Special Action Admission

Applicants who have not received a baccalaureate in psychology or whose grade point average in the last 90 quarter units falls below the minimum 2.75 may apply for admission to the department by special action. Evaluation of undergraduate preparation is made by the principal graduate adviser.

Students who are admitted to the program by special action are required to complete 16 units of upper division course work in psychology assigned by a graduate adviser, with a GPA of 3.0. Upon satisfactory completion of these units, students may proceed with their graduate course work.

Students are cautioned that no credit toward a graduate degree can be earned before satisfactory completion of 16 assigned units.

Classified Standing

Graduate students can achieve classified standing during their first quarter in regular attendance. This is done by submitting and receiving departmental approval and confirmation from the school dean for an official program. (This does not apply to special action and nonmajor graduate students taking equivalent course work.) No more than 13 units completed prior to attainment of classified standing may be credited toward graduation. No credit toward graduation is given for courses taken which are not listed on the student's official program.

Departmental Requirements (12-19)

All graduate students must complete Sections A, B and C (listed below) within their first four courses with a 3.0 GPA or higher:

- A. PSY 555 (0-6) with a grade of B or higher*
- B. One of the following with a grade of B or higher:
 - PSY 411 (4)
 - PSY 414 (4)
 - PSY 429 (5)
 - PSY 417 (4) for Applied Behavior Analysis Option only
- C. Two 400-level courses

Students may not enroll in a 500-level course before satisfactory completion of Section A and B. Students who complete Section A and B satisfactory within their first two or three courses may take two 500-level courses.

*Students who (a) have a 3.4 GPA or higher in their last 90 quarter units as an undergraduate psychology major or have a 3.4 GPA in their 31-37 units of nonmajor course work or (b) have a 3.0 GPA or higher in their last 90 quarter units as an undergraduate psychology major with a score of 550 or higher on the GRE subject examination in psychology may, with their adviser's approval, elect to waive PSY 555.

Advancement to Candidacy

Upon satisfactory completion of Sections A, B and C students must apply for advanced to candidacy by filing the appropriate forms with the department graduate secretary. Enrollment in PSY 585, 590, 595, 597, 598, 599 and the Comprehensive Examination (PSY 596) is limited to students who have been advanced to candidacy.

Application to the Marriage, Family, Child Counseling (MFCC) Program

Students who wish to apply to the MFCC program of the Psychology Department must obtain an application form from the department. All applications must be received by March 1 of the year the student seeks to be admitted. New MFCC students are accepted only in the Fall Quarter of each academic year. A completed application must include official transcripts of all undergraduate and graduate work, three letters of recommendation and a completed application form. These materials must be submitted directly to the Psychology Department. Application and acceptance into the University is separate from application and acceptance into the Psychology Department.

Acceptance into the Psychology Department MFCC Program is a two-tiered process. First, the applicant must have a baccalaureate degree with a major in psychology. Students whose baccalaureate degree is not in psychology must complete 31-35 specified units in psychology with a GPA of 3.0 or higher before applying for admission to the MFCC program. In addition to the baccalaureate in psychology or its equivalent, the applicant must have at least a 3.0 grade point average (on a scale of 4) in the last 60 semester or 90 quarter units of academic courses. After evaluation of course work, letters of recommendation, and the application form, an applicant may be advanced to the second tier of the application process. Final determination of acceptance to the program will be based on a personal interview with faculty and student members of the Psychology Department MFCC program.

Master of Arts Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Of the required 23 units of 500-level courses in Psychology, no more than 13 units may be elected in combinations of PSY 590, 595, 597, 598, and 599.

General Option (45 units)

Students in this option must complete comprehensive exams as a culminating experience. The remainder of the programs should be worked out in consultation with a faculty advisor and tailored to the student's educational objectives.

Departmental Requirements (12-19 units) (see above)

Required Course: (2-4 units)

Select 2-4 units of PSY 598, in consultation with adviser.

Electives in Psychology/Related Fields (22-31 units)

Select 22-31 units of elective coursework in consultation with departmental advisor to complete 45 units required for the degree.

Comprehensive Examination (0 units)

PSY 596 Comprehensive Examination (0)

The student should complete his/her PSY 598 units under faculty supervision during the quarter before enrolling in the comprehensive exam.

Students should expect to take the comprehensive examination (PSY 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

Research Option (45 units)

The research option for the M.A. degree is a rigorous program designed to develop research and conceptual skills for students whose primary interest is in continuing their education in a doctoral program. A key feature of the program is a close mentoring relationship with a faculty member who oversees the student's progress toward his or her individual research goals. All students begin their program in the fall quarter and take several core courses together. Students are required to attend biweekly faculty lectures that introduce them to the research interests and activities of the faculty.

Students will need to submit an application for the research option by February 1st any given year for consideration for the following September. Students are responsible for providing all materials to accompany their application and only complete applications will be processed. Applicants will be notified of their status by April 15th following their submission. In addition to materials required for admission to the university, students will need to submit requirements listed in the research option application form available from the department.

Students are required to have a grade point average (GPA) of 3.0 to be eligible for the research option. Students with a GPA of 2.75 to 3.0 must present evidence that they are committed to and qualified for graduate work. This evidence could include (but is not limited to) relevant experience, or GRE scores with an advanced Psychology score of 550 or higher. Students with a GPA below 2.75 will not be considered.

Departmental Requirement (12-19 units) (see above)

Required Course (2-4 units)

Select 2-4 units of PSY 597 in consultation with advisor.

Electives in Psychology/Related (18-27 units)

Select 18-27 units of electives coursework in consultation with advisor to complete 45 units required for the degree.

Thesis (4 units)

PSY 599 Thesis (4)

Master of Science Degree (54–63 units)

A total of 54-63 units is required, depending on the option selected. The General option requires 54 units, the Applied Behavior Analysis option requires 57-63 units, and the Marriage, Family, and Child Counseling option requires 55-61 units. The MFCC program requires an additional 18-31 units to satisfy state licensure requirements.

General Option (minimum 54 units)

Departmental Requirements (12-19 units) (see above)

Required Field Study (8 or 12 units)

PSY 585 Directed Clinical Practice (4,4, 4) or
PSY 595 Field Experience in Psychology (4, 4)

This requirement may be waived for students with adequate prior experience in an appropriate field as determined by the department. Any combination of field and teaching experience that meets Charter School of Education requirements for the credential program with specialization in school psychology also satisfies this requirement.

Electives in Psychology and Related Fields (19-34 units)

Select 2-5 units of PSY 597 and 598, in consultation with a departmental adviser, and an additional 19-34 units of adviser-approved courses to comprise the total number of units required for the degree.

Of the required 27 units of 500-level courses in psychology, no more than 13 units may be elected in combinations of PSY 590, 595, 597, 598, and 599.

Comprehensive Examination or Thesis (0, 4 units)

Students should expect to take the comprehensive examination (PSY 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

Instead of comprehensive examinations, students may choose to write a thesis under the guidance of an adviser. Students making this choice must enroll in PSY 599, in which a maximum of 4 units may be taken.

Applied Behavior Analysis Option (57- 63 units)

The major with this option trains students in the concepts and techniques of behavior analysis as applied to areas of counseling, behavioral medicine, and education. It also provides training in traditional areas of psychology and prepares students for employment at the master's degree level and for doctoral level training. This program is accredited by the Association for Behavior Analysis.

Departmental Requirements (see above) (0-6 units)* (Departmental Requirement A only - see note*)

Required courses (57 units)

Methodology (4 Units)

PSY 417* Single Case Research Design (4)

Conceptual Analysis (4 Units)

PSY 428* Introduction to Analysis of Behavior (4)

Experimental Analysis of Behavior (8 Units)

PSY 421* Psychology of Learning and Behavior (4)
PSY 500 Seminar: Learning and Behavior (4)

Applied Behavior Analysis (23 Units)

COUN 406 Behavioral Counseling and Self-Management (4)
COUN 501 Behavior Analysis in School, Home, and Agency Settings (4)
COUN 502 Advanced Behavioral Contingency Management in Schools (4)
COUN 504 Advanced Topical Study in Application of Behavior Analysis in Education (4)
COUN 593 Practicum: Staff Development and Consultation (3)
PSY 528 Seminar in Behavior Therapy (4)

*PSY 417 Satisfies Departmental Requirement B and PSY 421 and PSY 428 satisfy Departmental Requirement C

Electives (4 Units)

Select one from following:

PSY 501	Seminar: Sensation and Perception (4)
PSY 503	Seminar: Complex Learning Processes (4)
PSY 506	Seminar: Physiological Psychology (4)
PSY 510	Seminar: Abnormal Psychology (4)
PSY 511	Seminar: Developmental Psychology (4)
PSY 512	Behavior Disorders in Children (4)

****Field Work (6 Units)**

PSY 595	Field Experience in Psychology (6) or
COUN 586S	Supervised Field Experience in Pupil Personnel Services: School Counseling (6)
COUN 588	Supervised Practice in Rehabilitation Counseling (6)

***interview required before admission to field work courses*

Graduate Research and Thesis (8 Units)

PSY 597	Graduate Research (2)
PSY 599	Thesis (6)

Marriage, Family, and Child Counseling Option (55-63 units)

The major with this option is designed to fulfill in part state regulations for licensure in Marriage, Family, and Child Counseling as outlined in the Business and Professions Code Section 4980.37. To complete state requirements for licensing, students in this option must take additional units. Generally, students will need a total of 73-86 units in order to meet all state requirements, depending upon prior coursework. This program further prepares students with the skills necessary for employment in mental health and related fields that utilize psychological and counseling services.

**Departmental Requirement A only (0-6)*
(see above and note below)****Required Courses (55-57 units)**

PSY 411*	Research Methods in Psychology (4)
PSY 412A*	Psychology of Human Development: Infancy and Childhood (4)
PSY 426*	Family Therapy Dynamics and Perspectives (4)
PSY 436A	Counseling and Psychotherapy: Theories, Methods and Issues (4)
PSY 431	Survey of Psychological Tests (5)
PSY 464	Psychology and the Law (4)
PSY 510	Seminar in Abnormal Psychology (4)
PSY 512	Behavior Disorders in Children (4)
PSY 542	Human Sexuality: Dysfunction and Treatment (4)
PSY 585	Directed Clinical Practice (16)
PSY 598	Graduate Directed Study (2-4)

**PSY 411 Satisfies Departmental Requirement B and PSY 412A and SY 426 satisfy Departmental Requirement C*

Comprehensive Examination (0 units)

PSY 596 Comprehensive Examination (0)

The student should complete his/her PSY 598 units under faculty supervision during the quarter prior to enrolling in the comprehensive exam.

Students should expect to take the comprehensive examination (PSY 596) the quarter they complete all course work on their program and must comply with school and department requirements.

Electives to Qualify for Licensing (18-31 Units)

PSY 410B	Abnormal Psychology (4)
PSY 412B	Psychology of Human Development: Adolescence and Young Adulthood (4)
PSY 462	Maturity and Aging (4)
COUN 405AB	Theoretical and Developmental Aspects of Behavior (4,4)
COUN 552	Counseling and Human Sexuality (4)
SOC 460	Race and Ethnic Relations (4)
COUN 503	Sociological and Cultural Factors in Counseling (4)
PSY 465	Multicultural Psychology: Current Issues and Research (4)
PSY 427	Family Therapy Techniques: Strategies for Change (4)
PSY 463B	Counseling and Psychotherapy: Theories, Methods and Issues (4)
EDSP 412	Issues in Child Abuse, Neglect, and Family Violence (4)
COUN 450	Counseling Theories (4)
COUN 428	Measurement Issues in Counseling (4)
CHDV 504	Research Methods with Children and Families (4)
PSY/COUN 531AB**	Individual Testing and Case Study Techniques (4, 4)
PSY/COUN 534**	Methods of Personality Assessments (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition and Tobacco (4)

***Must be taken as a sequence and appear on graduate program.*

The Psychology Clinic

The Department of Psychology provides a training facility for those students in the MFCC option admitted to the M. S. degree program. Students selected are admitted to this program upon approval for enrollment in applicable psychology courses. Qualified students may counsel children, families, and/or groups.

List of Courses (PSY) - Undergraduate Level

Lower Division Courses

150 Introductory Psychology (4)

Psychological perspectives on human behavior; principles and methods of psychology as a science; introduction to major topic areas of psychology. Relationship of psychological principles to sociocultural experiences.

CAN PSY 2

160 Psychology of the Developing Person (4)

Principles of life-span development from birth to death, from a psychological perspective. Salient physiological, social, and psychological factors relevant to understanding development of the integrated person.

GE E

170 Introductory Physiological Psychology (4)

Relationship between behavior and its biological correlates; includes biological context of behavior, physiological determinants, sensory activity, perception, learning, arousal, and reaction.

171 Laboratory Demonstration in Physiological Psychology (1)

Prerequisite or corequisite: PSY 170. Laboratory procedures for physiological psychology; introduction to instruments used, organisms studied, and processes investigated. Required of majors; optional for others.

202 Descriptive Statistics in Psychology (5)

Prerequisites: PSY 150, GE critical thinking and Math102. Basic numerical and graphical methods in psychology; statistical notation, data presentation, measures of central tendency, dispersion and covariation, probability; utilization of personal computers in statistics. Lecture 4 hours, laboratory 3 hours.

270 Introductory Comparative Psychology (4)

Prerequisite: BIOL 155. A comparison across species that traces the development of behavior from an evolutionary standpoint. Learning cognition, social behavior, nervous systems, and hormonal systems are among the topics to be covered.

Upper Division Courses

PSY 150 and GE blocks A and B are prerequisite to all upper division psychology courses.

302 Statistical Methods in Psychology (5)

Prerequisite: PSY 202. Binomial and other probability distributions; covariance and correlation, regression; confidence intervals and hypotheses testing; t, f, and Chi Square distributions. Lecture 4 hours, laboratory 3 hours.

304A Experimental Psychology (6)

Prerequisites: ENGL 102*, PSY 302. **WPE. Introduction to research experimental design, library research, laboratory techniques for gathering/analyzing empirical data, preparing technical manuscripts in (a) psychophysics, scaling and perception, and (B) cognition memory, learning, motivation, and emotion. Lecture 4 hours, recitation 1 hour, laboratory 3 hours.

**Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190. ** Must have passed the WPE.*

304B Experimental Psychology (5)

Prerequisites: ENGL 102*, PSY 302. Introduction to research, laboratory research experimental design, library research, laboratory techniques for gathering/analyzing empirical data, preparing technical manuscripts in (a) psychophysics, scaling and perception, and (b) cognition memory, learning, motivation, and emotion. Lecture 4 hours, laboratory 3 hours. *Students subject to earlier catalogs satisfy this prerequisite with ENGL 101 or 190.

307 Physiology and Psychology of Violence and Aggression (4) (also listed as NURS 307)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychobehavioral approaches to violent individuals; analysis of and research support for understanding violence drawn from natural, medical, and behavioral sciences.

GE Theme B

308 Theories and Systems in Psychology (4)

Critical survey of "schools" era of psychology: structuralism, functionalism, Gestalt, behaviorism, psychoanalysis, humanism, and others, emphasizing their impact upon contemporary psychology.

309 Human Violence and Individual Change (4) (also listed as COMD 309)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of theories, research and practices for accomplishing individual change; application of models of change to alter violent or counterproductive behaviors and attitudes; improving human interaction, and reducing violence/abuse.

GE Theme B

323 Psychology of Emotion (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. The influence of learning, cognition, psycho-dynamics, evolution, pharmacology and physiology on feelings and emotions.

GE Theme E

326 Psychological Factors in Marriage (4)

Issues of adjustment to marriage including: courtship, cultural differences, communication, sexual behavior, parenting, separation, divorce, remarriage.

354 Selected Topics in Psychology (4)

Prerequisites: As needed for specific topic. Current topics of special interest to students in psychology, as announced in Schedule of Classes. May be repeated for credit.

362 Psychological and Psychosocial Developmental Stages in Maturity and Aging (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Critical evaluation of psychological and psychosocial issues related to aging, with consideration of the relationship of gender, ethnicity and social class to the aging process.

GE Theme F

388 Sex and Gender (4)

(also listed as BIOL 388N)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Biological and psychological differences between the sexes; topics include genetics of sexual determination, sexual development and anomalies, hormones in physiology and behavior, psychological differences in behavior. No credit toward Biology major or minor.

GE Theme C

395 Field Experience in Psychology (1–4)

Prerequisite: Department approval. Opportunity to study psychological principles of behavior in nonlaboratory settings. May involve observation and participation in community, clinical, educational, business or other organizational settings. May be repeated to a maximum of 8 units. Graded CR/NC.

400-level Courses

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

401 Physiological Psychology (4)

Prerequisite: PSY 170. Relationship between integrated behavior and physiological processes; theories that relate psychology and physiology.

402 Media Psychology (4)

Review of theoretical and research literature to determine mass communication impact (e.g., film, television, print) on social and psychological functioning of individuals and societies.

403 The Psychosocial Dynamics of Child Maltreatment and Family Violence (4) (also listed as COUN 403)

Psychosocial factors in child maltreatment and family violence: developmental considerations, assessment, interventions, legal and ethical issues, research findings, and community resources.

407 The Psychological Impact of Film (4)

Course examines theory and research concerning social, psychological and physiological dimensions of film and how audience demographics and cultural diversity dictate the kinds of films produced and those not produced.

409 Computer Techniques for Psychology (4)

Prerequisite: PSY 302. Available systems; introduction to programming, use and modification of library programs for analysis of psychological data; special techniques for subject-computer interaction in psychological research. No prior computer experience assumed.

410AB Abnormal Psychology (4, 4)

410A: Definition, history of abnormality; perspectives on maladaptive behavior, research, classification, assessment, diagnosis, legal issues and clinical procedures, coping with maladaptive stress, personality disorders, anxiety disorders, substance abuse and dependence.

410B: Prerequisites: PSY 410A. A review of diagnosis, research, and treatment of schizophrenia, affective and psychophysiological disorders, organic brain syndromes, and mental retardation throughout the life cycle.

411 Research Methodology in Psychology (4)

Prerequisite: PSY 302. Logic of research methodology and statistical analysis; evaluation of adequacy of research strategies; interpretation of results.

412A Psychology of Human Development: Infancy and Childhood (4)

Theory and empirical literature pertaining to infancy and childhood.

412B Psychology of Human Development: Adolescence and Young Adulthood (4)

Theory and empirical literature pertaining to adolescence and young adulthood.

414 Analysis of Variance (4)

Prerequisite: PSY 302. Various analysis-of-variance models in analysis and interpretation of psychological data.

415 Interpersonal Relationships (4)

Prerequisites: PSY 304A, 422. The psychology of interpersonal relationships. Conceptual, methodological, and statistical issues in relationships research. Attraction and mate selection; relationship cognition; relationship development, conflict, dissolution, affiliation, loneliness, social support. Research project.

417 Single Case Research Design (4)

Prerequisite: PSY 304B. Basic types of single case experimental designs including withdrawal, reversal, multiple baseline, and multi element designs; methods of observation, measurement, recording behavior; assessing reliability of observations.

418A Introduction to Theories of Personality (4)

Description and evolution of major theories of personality.

418B Review of Research in Personality (4)

Critical evaluation of research on selected aspects of personality.

419 Psychology of Sex Roles (4)

Prerequisites: GE critical thinking requirement, introductory social science course. Psychological, social, and physiological determinants of sex difference in behavior; emphasis on development of sex role identity and interpersonal interactions.

421 Psychology of Learning and Behavior (4)

Prerequisites: PSY 304B, upper division standing. Principles of classical and operant (instrumental) conditioning. Emphasis on experimental findings with consideration of both current and historically relevant theories.

422 Social Psychology (4)

Introduction to major theories of social psychology with special emphasis on such topics as aggression, liking and loving, altruism, prejudice, and attitude theory and measurement.

423 Motivation and Emotion (4)

Prerequisites: PSY 170, 304B. Critical examination of drives, needs, preferences, desires, feelings and emotions from experimental and theoretical perspectives.

424 Cognitive Psychology (4)

Prerequisite: PSY 304A. Theories and experimental literature with respect to the nature of memory and cognition.

425 Sensation and Perception (4)

Prerequisites: PSY 170, 304AB. Examination of theories and experimental literature with respect to variables that determine the organism's ability to respond differentially to sense data.

426 Family Therapy Dynamics and Perspectives (4)

Prerequisite: PSY 410A or 418A. Theoretical perspectives in family processes; treatment approaches; significant issues in family life.

427 Family Therapy Techniques: Strategies for Change (4)

Prerequisites: PSY 426, instructor consent. General systems theory and analyses applied to marital and family problem-solving.

428 Introduction to Analysis of Behavior (4)

Basic phenomena of behavior analysis; applications for understanding human behavior, therapy, analysis of cognition, and verbal, social, and abnormal behavior; consideration of ethics involved in controlling human behavior.

429 Multiple Regression/Correlation Analysis (MRCA) (5)

Prerequisite: PSY 302; also recommended: PSY 414. Correlation and partial correlation; regressing a dependent variable on single and multiple variable factors; applications to experimental and nonexperimental research designs.

431 Survey of Psychological Tests (5)

Prerequisite: PSY 202. Theoretical issues in individual differences; introduction to a variety of group and individual psychological tests and assessment techniques; role of tests in clinical evaluation; problems of reliability, validity, and interpretation. Lecture 3 hours, laboratory 3 hours.

**433 Psychology of Cognitive Development (4)
(also listed as CHDV 443)**

Prerequisite: PSY 412A. Evolution of cognitive processes from simple organisms to adult human beings. Piaget's theory; development of dialectic operations; perceptual and language development and apprehension of reality; relationship of social development to cognitive development.

436AB Counseling and Psychotherapy: Theories, Methods, and Issues (4, 4)

436A: Prerequisites: Senior or graduate standing; PSY 410AB or 418AB. Theories of counseling and psychotherapy; systems approaches to individual, marital, and family dynamics; introduction to clinical interviewing techniques.

436B: Prerequisite: PSY 436A. Current issues in counseling and psychotherapy; application of systems/communication models to individual, marital, and family therapy; student participation in intensive evaluation of therapeutic techniques.

438 Introduction to Clinical Psychology (4)

Prerequisite: PSY 410A or 410B. Current trends and methods of clinical psychology; designed primarily for students considering careers in area. Problems of assessment, psychotherapy, research, and community involvement.

440 Theory and Measurement of Attitudes and Opinions (4)

Prerequisite: PSY 422. Conceptualization and measurement of attitudes, beliefs, and opinions. Theories of belief systems, attitude formation and change; implications of research findings. Individual and/or class research projects.

445 Community Psychology (4)

Principles of social and clinical psychology; role of psychologists in analysis of social systems; community organization, social planning, and community change; methodology and basic concepts of community mental health.

450 Principles of Health Psychology (4)

Prerequisite: Psychology 170 or 401. The effects of health upon behavior and of behavior upon health. Psychological consideration in health care.

451 Applied Health Psychology (4)

Prerequisite: PSY 450. Focus on illnesses for which behavioral change in recommended. Lifespan and multicultural issues. Student participate in a research project in such domains as eating disorders, pain management and addictions.

454 Special Topics in Psychology (1–6)

Prerequisites: As needed for specific topic. Current topics of special interest to students in psychology, as announced in Schedule of Classes. May be repeated as subject matter changes.

462 Psychology of Human Development: Maturity and Aging (4)

Prerequisites: Upper division standing; PSY 412AB recommended. Psychological factors in behavior during middle and later years, including physical and mental health problems, role changes successful adjustment patterns, and family and community relationships in successive adult age groups.

464 Psychology and the Law (4)

Laws pertaining to psychology; rights and responsibilities of mental health providers; conflicts between legal and ethical practice of psychology; current legislative issues.

465 Multicultural Psychology: Current Issues and Research (4)

Prerequisite: PSY 304A or equivalent. Theoretical and empirical approaches to the psychological understanding of diverse cultural groups. Conceptualizations of similarity and difference. Current findings from multicultural research.

485 Directed Field Experience in Community Clinical Psychology (4)

Prerequisites: PSY 410A or 410B; 412A or 412B; 422 or 462; agency acceptance. Application of psychological principles (interviewing, counseling) in supervised settings: service agencies, mental health centers, halfway houses, etc. Lecture, problem solving meetings, self and agency evaluation reports. May be repeated to maximum of 8 units. Graded CR/NC.

490 Human Memory (4)

Prerequisites: PSY 304A, Upper division standing. Principles of human memory. Emphasis on basic and applied experimental findings with a focus on individual differences and situation factors related to eyewitness memory and suggestibility in adults and children.

491 Methods of Data Analysis (5)

Prerequisite: PSY 302. The use and interpretation of multivariate data analysis techniques for qualitative and quantitative information and the implementation of these techniques using standard computer packages.

499 Undergraduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and a final report submitted. May be repeated for credit. Graded CR/NC.

Graduate Level Courses (PSY)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500-level courses.

500 Seminar: Learning and Behavior (4)

Prerequisite: PSY 421. Examination of critical areas of the experimental literature in learning and behavior with a stress on issues related to the experimental analysis of behavior.

501 Seminar: Sensation and Perception (4)

Prerequisite: PSY 425. Critical review of current literature; theories, methods, and problems concerning sensation and perception.

503 Seminar: Complex Learning Processes (4)

Prerequisites: PSY 424, 500. Critical examination of experimental data and theory in learning, memory, and cognition.

504 Advanced Experimental Methods (4)

Prerequisite: Instructor consent. Nonstatistical issues in design of experimental psychological research. Topics include design logic, literature sources, apparatus, subjects. Emphasis on preparation of an experimental design in an area of student's interest.

506 Seminar: Physiological Psychology (4)

Prerequisite: PSY 401. Critical discussions, including physiological correlates and mechanisms of motivation and emotion, learning and memory, human psychopathology.

510 Seminar: Abnormal Psychology (4)

Prerequisite: PSY 410AB. Intensive analysis of major types of abnormal behavior, their development and prevention. Emphasis on relationship of abnormal behavior to theories of personality and research findings.

511 Seminar: Developmental Psychology (4)

Prerequisites: PSY 304A, 412AB or comparable undergraduate work in research methods and human development. Intensive analysis of current theories and research in developmental psychology.

512 Behavior Disorders in Children (4)

Prerequisites: PSY 410AB, 412AB. Application of principles of psychology to behavior disorders in children. Designed primarily for clinicians, social workers, school psychologists, and parent educators.

515 Advanced Statistical Methods in Psychology (4)

Prerequisite: PSY 414. Topics include fixed, mixed, and random models of analysis of variance, interaction, analysis of covariance, and miscellaneous nonparametric statistics.

522 Seminar: Social Psychology (4)

Prerequisite: PSY 422. Theory, methodology, and applied problems dealing with the phenomena of social behavior. Individual projects required.

528 Seminar in Behavior Therapy (4)

Prerequisites: PSY 421 or 428; PSY 417 recommended. Basic principles of behavior and their application to behavior therapy. Common procedures of behavior therapy, including desensitization and flooding, applied behavior analysis, token economies and behavioral contracts.

531AB Individual Testing and Case Study

Techniques (4, 4) (also listed as COUN 531AB)

Prerequisites: PSY 430 or COUN 428 and one of the following sequences: PSY 410AB and 438; 410AB and 431; 418AB and 431; or 410A and COUN 405A, 501 and 529. Intensive practice in administration and interpretation of better known testing devices for mental ability, perceptual and motor functioning, and personality dynamics, with attention to integration of results in case studies. Lecture 3 hours, laboratory 3 hours.

534 Methods of Personality Assessment (4) (also listed as COUN 534)

Prerequisite: PSY 531AB. Study and evaluation of current personality tests, objective and projective. Administration, scoring, interpretation, and reporting of results; findings of empirical research. Lecture 3 hours, laboratory 3 hours.

536 Seminar: Counseling (4)

(general and special sections)

Prerequisites: PSY 410AB, 418AB, or 436AB and instructor consent. Intensive discussion of typical counseling situations coordinated with readings in area; evaluation of selected counseling theories. Offered in general and special sections, e.g., child, family, group. May be repeated in different sections, with maximum of 8 units applied to master's degree.

541 Seminar: Group Processes (4)

Psychological nature of social groups with emphasis on processes in small groups. Research design and experimental methods of studies in social interaction of small groups; analysis of research findings.

542 Human Sexuality: Dysfunction and Treatment (4)

Prerequisite: Eight units of course work in theory and techniques of counseling. Theoretical perspectives on treatment of sexual dysfunction; diagnosis, treatment, research findings, ethical considerations.

555 Introduction to Graduate Study in Psychology (6)

Prerequisites: PSY 304AB, 308. Critical evaluation of core areas in psychology including: learning, perception, personality, physiological, social, and developmental psychology. Extensive use of bibliographic resources and oral and written presentations.

585 Directed Clinical Practice (4)

Prerequisites: PSY 438; 436B or 531B; and 445; advancement to candidacy; departmental approval. Lecture, discussion, and supervised experience in providing psychological services in campus or community settings. May be repeated to maximum of 12 units. Graded CR/NC.

586 Brief Psychotherapy and Crisis Intervention (4)

Prerequisites: Advancement to candidacy; PSY 436A. Principles of brief psychotherapy and crisis intervention. Emphasis on understanding basic issues and techniques involved in brief therapy strategies. Also, crisis intervention techniques from a variety of perspectives will be covered.

588 Critical Problems in Psychology (4)

Prerequisite: Instructor consent. Critical problems in psychology as a science or as a profession. Topic varies each quarter. May be repeated for credit.

590 Practicum in Counseling (1–9)

Prerequisites: PSY 438; 536 (may be taken concurrently); advancement to candidacy; and approval by departmental committee in quarter prior to enrollment. Independent supervised field experience in counseling. Graded CR/NC.

595 Field Experience in Psychology (1–9)

Prerequisites: Advancement to candidacy; instructor consent; application to department in quarter prior to enrollment. Independent supervised field experience in an applied area of psychology. May be repeated to maximum of 12 units. Graded CR/NC.

597 Graduate Research (1–6)

Prerequisites: Advancement to candidacy; instructor consent to act as sponsor; departmental approval of project prior to registration. Independent research under guidance of the faculty. May be repeated for credit. Graded CR/NC.

598 Graduate Directed Study (1–4)

Prerequisites: Advancement to candidacy; instructor consent to act as sponsor. Independent study of advanced topics in the field; regular conferences with sponsor. May be repeated for credit. Graded CR/NC.

599 Thesis (1–9)

Prerequisites: Advancement to candidacy; instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis. May be repeated to maximum of 9 units. Graded CR/NC.

Program in

Social Science

School of Natural and Social Sciences

PROGRAM OFFICE

King Hall C4066

Phone: (323) 343-2020

Email: history@calstatela.edu

Website: www.calstatela.edu/academic/history/socsci.htm

Program Coordinator: Choi Chatterjee.

The interdisciplinary program in Social Science offers a foundation for general and comparative study of societies and human events.

The Faculty

Instruction is provided by the faculties of all social science departments. Advisement information is available from the Social Science Coordinator.

Undergraduate Programs**Bachelor of Arts Degree**

The Bachelor of Arts degree in Social Science provides the basis for a liberal arts education with major emphasis in social science. Students who graduate with this major will fulfill requirements for the Single Subject credential in Social Science. The major requires completion of 108 units. The program includes three options: History, Geography, and Political Science. Early consultation with the Social Science coordinator is advised in order to select an option.

Requirements for the Major (108 units)**Lower Division Required Courses (40 units)**

ECON 201-202 Macro and Microeconomics (4, 4)
 GEOG 150 Human Geography (4) or
 GEOG 155 Cultural Geography (4)
 HIST 110ABC World Civilization I, II, III (4, 4, 4)
 HIST 202AB United States Civilization (4, 4)
 POLS 150 Government and American Society (4)
 POLS 250 World Politics (4)

Breadth Courses (40 units)**California Perspectives (12)**

GEOG 431 California (4) or
 GEOG 432 Metropolitan Los Angeles (4)
 HIST 488 California (4)
 POLS 403 State and Local Government (4)

World Geography (8 units)

GEOG 370 World Regions (4)
 GEOG 451 Historical Geography of North America (4)

The Human Personality (4 units)

PSY 150 Introductory Psychology (4)

Social Science Perspectives (4 units)

Select one from the following:

ANTH 250 Cultural Anthropology (4)
 HIST 150 Asian-American History (4)
 SOC 263 Asian-American Experience (4)
 SOCS 180 Race and Ethnicity in American Society (4)

Diversity in U.S. History (4 units)

Select one from the following:

ANTH 406 Indians of North America (4)
 CHS 444 History of the Chicano People (4)
 HIST 477 United States Social History (4)
 HIST 480 Ethnicity and Immigration in American History (4)
 PAS 420 Afro-American Culture (4)
 SOC 460 Race and Ethnic Relations (4)

Religion and Society (8 units)**Religion and Institutions (4 units)**

RELS/PHIL 200 Comparative Religion (4)

Religious Ideas (4 units)

Select one from the following:

ENGL 258 Mythology in Literature (4)
 PHIL 152 Human Values (4)

Capstone Course (4 units)

SOCS 497 Social Science Proseminar (4)

Select one from the following three options (24 units):**History Option****Upper Division Required Courses (24 units)****Historiography (4 units)**

HIST 388 Historiography (4)

U.S. History (8 units)

Select one from each group.

Periods in U.S. History

HIST 470 The Colonial Heritage: The United States, 1607-1763 (4)
 HIST 471 Era of Revolution: The United States, 1763-1815 (4)
 HIST 472 Democracy, Dissent and Disunion: The United States, 1815-1877 (4)
 HIST 473 The United States, 1877-1918 (4)
 HIST 474 The United States, 1918-1952 (4)
 HIST 475 The United States, 1952-Present (4)

Topics in History

HIST 383	Rise of Urban America (4)
HIST 457A	American Intellectual History to the Civil War (4)
HIST 457B	American Intellectual History since the Civil War (4)
HIST 476	Economic History of the United States (4)
HIST 478	History of United States International Relations (4)
HIST 479	Constitutional History of the United States (4)
HIST 481	Special Topics in the U.S. West (4)
HIST 482A	American Popular Culture to 1900 (4)
HIST 482B	American Popular Culture from 1900 (4)
HIST 485	U.S. Women to 1877 (4)
HIST 486	U.S. Women, 1877 to present (4)
HIST 487	History of U.S. Work and Working People (4)
HIST 489	Los Angeles (4)

World History (12 units)

Select one course from each area.

Western Civilization and Europe

HIST 421	The Early Middle Ages (4)
HIST 422	The Later Middle Ages (4)
HIST 423	Renaissance and Reformation (4)
HIST 424	Seventeenth Century Europe (4)
HIST 425	Eighteenth Century Europe (4)
HIST 426	French Revolution and Napoleon (4)
HIST 429	Europe: 1914 to Present (4)
HIST 430	Europe: 1815-1914 (4)

Topics in Western History

HIST 311	Classical Civilization and the Modern World (4)
HIST 380	Ancient and Modern Science (4) (also listed as CHEM 380N and PHIL 380)
HIST 437	Social History of Europe (4)
HIST 438	Economic History of Europe (4)
HIST 439	Intellectual History of Europe (4)
HIST 443	The British Empire (4)
HIST 447	The Soviet Union (4)

The Non-Western WorldAfrica

HIST 414A	Traditional Sub-Saharan Africa (4)
HIST 414B	Modern Sub-Saharan Africa (4)
HIST 415	Contemporary Sub-Saharan Africa (4)

Middle East

HIST 419	Classical Age of Islamic Civilization 600-1258 (4)
HIST 420	Great Medieval Islamic Empires 1258-1798 (4)
HIST 491	The Middle East and the West 1768-1919 (4)
HIST 492	Nationalism, Revolution, and War in Middle East, 1919 to present (4)

Latin America

HIST 461	Latin America: Colonial Period (4)
HIST 462	Latin America: 1810-1914 (4)
HIST 463	Latin America: 1914 to Present (4)

Asia

HIST 494A	Traditional China (4)
HIST 494B	Modern China (4)
HIST 494C	People's Republic of China (4)
HIST 495A	Traditional Japan (4)
HIST 495B	Modern Japan (4)
HIST 496	History of Southeast Asia (4)

Political Science Option**Upper Division Required Courses (24 units)****International Relations (4 units)**

Select one from the following:

POLS 425	U.S. Foreign Policy in a Changing World (4)
POLS/ECON 426	International Political Economy (4)
POLS 427	International Relations (4)

American Politics and Institutions (16)**Fundamental Values and Institutions (8 units)**

Select two from the following:

POLS 400	Power and Policy in Washington: Congress and the President (4)
POLS 435	American Political Thought (4)
POLS 440	Judicial Process (4)

Federal Institutions and National Perspectives (4 units)

Select one from the following:

POLS 405	Intergovernmental Relations in the U.S. (4)
POLS 415	Political Sociology (4)
POLS 417	Public Policy and the Economy (4)
POLS 418	U.S. Political Parties, Campaigns, and Elections (4)
POLS 441	American Constitution Law: Federalism (4)
POLS 442	American Constitutional Law: Civil Rights (4)

State and Local Institutions and Current Issues (4 units)

Select one from the following:

POLS 402	Politics of Organized Labor (4)
POLS 404	Urban Government and Politics (4)
POLS 406	Los Angeles City Politics (4)
POLS 408	Political Socialization (4)
POLS 409	Minority Politics in the U.S. (4)
POLS 414	Politics and the Media (4)
POLS 419	Public Opinion and Polling (4)

Economic Systems and Issues (4 units)

Select one from the following:

ECON 350	Economics of Poverty in the U.S. (4)
ECON/POLS 426	International Political Economy (4)
ECON 440	Urban and Regional Economics (4)
ECON 460	Economic Growth of Underdeveloped Areas (4)
ECON 471	American Economic History (4)
ECON 480	Comparative Economic Systems (4)

Geography Option**Upper Division Required Courses (24 units)****Human Geography (12 units)**

Select two from the following:

GEOG 441	World Resources (4)
GEOG 442	Population (4)
GEOG 467	Transportation (4)
GEOG 475	Settlement (4)
GEOG 476	Urban Areas (4)
GEOG 477	Urban Issues (4)

U.S. Regional Geography (4 units)

GEOG 421 United States (4)

Perspectives (4 units)

Select one from the following:

GEOG 432 Metropolitan Los Angeles (4)

GEOG 446 U.S. Ethnic Communities (4)

GEOG 481 Political Geography (4)

GEOG 495 Senior Thesis (4)

World Geography (8 units)

GEOG 424 South and Southeast Asia (4)

GEOG 425 Japan (4)

GEOG 427 Mexico and Central America (4)

GEOG 428 South America (4)

GEOG 430 China (4)

The Credential Program

The Bachelor of Arts degree in Social Science has been approved by the California Commission on Teacher Credentialing for the Single Subject credential in Social Science. Interested students should consult advisers in the Department of History, which administers the program, and in the Charter School of Education. Refer to the **Charter School of Education** section of the **Academic Programs: School-based and University-wide** chapter of this catalog for regulations governing all teaching credential programs.

List of Courses (SOCS) - Undergraduate Level**Lower Division Courses****180 Race and Ethnicity in American Society (4)**

An interdisciplinary examination of ethnic and racial groups in America. **GE D**

230 The Social Sciences and Poverty Policy (4)

Nature and causes of poverty from the viewpoints of the various social sciences. Government policies to alleviate poverty and their evaluation. Effects on, and effects of, the various social sciences. **GE D**

Upper Division Courses**497 Social Science Proseminar (4)**

Prerequisite: Senior standing. Concepts, methods, and techniques of the social sciences for secondary school teachers. Required of social science majors intending to pursue the credential.

499 Undergraduate Directed Study (1-4)

Prerequisites: Consent of an instructor to act as sponsor; ability to assume responsibility for independent work and to prepare written and oral reports. Project selected in conference with sponsor before registration; progress meetings held regularly.

Department of**Social Work**

School of Health and Human Services

DEPARTMENT OFFICE

King Hall C4069

Phone: (323) 343-4680

MSW Admissions Information Line (24 hours): (323) 343-5612

E-mail: fanders@cslanet.calstatela.edu

Website: http://www.calstatela.edu/dept/soc_work/index.htm

The mission of the Department of Social Work is preparation of professionals at the beginning and advanced levels for professional practice in Social Work, including work with individuals, families, groups and communities and with cultural and ethnic minorities. The profession educates individuals to be change agents to bring about positive social change through advocacy and empowerment for those groups too underrepresented to gain access to the opportunity structures in the United States. The profession provides an array of interventions for middle class and affluent individuals who have, for the first time, found themselves at risk for family or social dysfunctionality. The profession's code of ethics prohibits harm to clients and stresses self-determination, non-judgmentalism, starting where clients are and professional responsibility.

The Department of Social Work offers the Bachelor of Arts degree in Social Work and the Master of Social Work degree. The baccalaureate program is accredited by the Council on Social Work Education. The Master of Social Work degree program is in candidacy with the Council on Social Work Education.

Social work is a profession based on a set of values, scientific knowledge, and human relations skills and is concerned with helping individuals, groups, and communities interact with and confront their environment. Social workers strive to create the societal conditions necessary to improve social functioning. The social work program prepares students for careers in corrections, health, mental health, family/children's services, services to the disabled, substance abuse, work with the elderly, public welfare, neighborhood development, community services, probation and parole, residential treatment programs, industrial social work, planning, administration, organizing, and program development.

The Faculty

Professors: E. Frederick Anderson [Chair and Director], Shirley Jean Better, Neil A. Cohen, Roger Delgado, Alfredo G. González, James J. Kelly, Douglas Patino.

Associate Professors: Karin Elliott Brown, Siyon Y. Rhee

Assistant Professors: Joanne Altschuler, Rita Ledesma, Dale Weaver.

Emeritus: Phillip L. Carter.

Undergraduate Programs**Bachelor of Arts Degree**

The Bachelor of Arts degree in Social Work enables students to explore and develop values, knowledge and generalist skills essential to the practice of social work in a multiethnic environment. The goals of the program include: providing continuing education for persons already employed in the field of social work or related human services; preparing students for professional entry-level positions in social work; and preparing students for further study in graduate schools of social work or related human services.

Required Advisement

All students desiring to pursue a social work major must confer with a department adviser during their first quarter in the program. During the first quarter of their junior year, students must meet again with an adviser to plan the remainder of their program. Transfer students must see an adviser in their first quarter of enrollment at Cal State L.A. It is strongly recommended that students meet at least once a year with their faculty adviser.

Sequence Recommendations

It is highly recommended that students observe suggested sequences. Later course work assumes familiarity with prior course material. The following are strongly recommended or required:

Students who transfer without having completed equivalent courses should include

- PSY 150 or SOC 201 or 202 and SOC 210A or EDFN 452 among their first courses at Cal State L.A.;
- SW 391 should be taken soon after 210A or EDFN 452;
- SW 301 should be taken early in the major;
- SW 370, prerequisite to SW 461, 474, and 475, should be taken early in the major;
- SW 371AB is part of the upper division core and should be taken early in the junior year;
- All social work methods courses, i.e., SW 461, 472, 474, 475, should be taken before, or concurrently with, SW 495.

Requirements for the Major (86–87 units)**Required Upper Division Courses (71 units)**

SW 301	Writing for Social Work (4)
SW 370	Field of Social Work (4)
SW 371AB	Social Work Practice, Human Behavior, and Social Environment (4, 4)
SW 372	Social Work Practice I: Communication and Interviewing Skills (4)
SW 391	Social Work Research Methods (4)
SW 411	Computer Applications in Social Work (4)
SW 461	Social Work Practice in Minority Communities (4)

Required Upper Division Courses (cont'd)

SW 463	Women's Issues in Social Welfare (4)
SW 474	Social Work Practice II: Working with Individuals and Families (4)
SW 475	Social Work Practice III: Working with Groups (4)
SW 476	Child Welfare (4)
SW 478	Social Welfare Policy and Social Services (4)
SW 482	Social Work Practice IV: Community Organizing (4)
SW 495	Directed Field Experience (4, 4, 4)
SW 496	Integrative Seminar (1, 1, 1)

Required Courses in Related Fields (7-8 units)

EDFN 452	Statistics in Education (4) or
SOC 210A	Elementary Statistics (3)
PSY 150	Introductory Psychology (4) or
SOC 201	Principles of Sociology (4) or
SOC 202	Society and Individual Development (4)

Electives in Social Work and other fields (8 units)

Select with prior adviser approval.

Certificate Programs

The Applied Gerontology credit certificate, offered by the School of Health and Human Services, contains course work in social work and is available to both social work majors and others. The department also offers course work applicable toward the interdisciplinary credit certificate in Child Maltreatment and Family Violence offered by the School of Health and Human Services.

Graduate and Postbaccalaureate Programs**Master of Social Work Degree**

The Master of Social Work degree prepares graduate students for entry into advanced and specialized social work practice where they will be able to provide effective services to individuals, families, groups, organizations and communities.

Admission Requirements

Applicants must apply simultaneously to the University and to the Department of Social Work. Admission to the department does not guarantee admission to the School of Health and Human Services and/or the University. Admission to the university does not guarantee admission to the department and/or school. In addition to an evaluation of the applicant's potential for advanced practice in the profession of social work, the minimum requirements for admission are:

- Acceptable bachelor's degree from an accredited college or university;
- Minimum 2.75 grade point average in the last 90 quarter units (60 semester units);
- Completion of one course each in human biology, research and statistics and 8 quarter units (6 semester units) of upper division social science courses;
- Good academic standing at the last college or university attended; and
- Graduate Record Exam
- In addition, the Department Admissions Committee is guided by the following criteria:
- Voluntary and/or paid experience in human services;- Professional promise, which includes social consciousness and commitment to the values of the profession and the specific mission of the program, personal readiness, motivation, and ability to relate as an effective helping person to individual, organizational and societal needs.

Degree Requirements

A total of 90 units is required.

First Year Courses (48 units)

SW 510A	Human Behavior & the Social Environment I (4)
SW 510B	Human Behavior & the Social Environment II (4)

First Year Courses (48 units)

SW 510C	Human Behavior & the Social Environment III (4)
SW 520A	Parameters of Practice (4)
SW 520B	Micro Practice (4)
SW 520C	Mezzo and Macro Practice (4)
SW 530A	Social Welfare Policies and Services I (4)
SW 530B	Social Welfare Policies and Services II (4)
SW 540	Social Welfare Research and Statistics (4)
SW 549ABC	Field Practicum (4, 4, 4)

Second Year Courses (42 units)**Required Core (8 units)**

SW 555	Advanced Practice III: Integrative Seminar (2)
SW 599ABC	Thesis or Research Project I, II, III (2,2,2)

Concentration: Select one from the following (30 units):**Children, Youth, Women and Families (30 units)**

SW 551	Advanced Practice I: Family (4)
SW 553	Advanced Practice II: Family in Cultural Minorities (2)
SW 561	Policy and Services/ Applications: Family (2)
SW 571	Administration and Management of Agencies Serving Children, Youth, Women and Families (4)
SW 591ABC	Field Practicum: Children, Youth, Women and Families (6, 6, 6)

Aging and Families (30 units)

SW 552	Advanced Practice I: Aging and Families (4)
SW 554	Advanced Practice II: Aging in Cultural Minorities: Aging and Families (2)
SW 562	Policy and Services/ Application: Aging and Families (2)
SW 572	Administration and Management of Agencies Serving the Aging and Families (4)
SW 592ABC	Field Practicum: Aging and Families (6, 6, 6)

Electives (4 units)

With adviser approval, complete 4 units of electives.

List of Courses (SW) - Undergraduate Level

Upper Division Courses

PSY 150 or SOC 201 or 202, normally prerequisite to all upper division SW courses, may be waived only with instructor consent.

301 Writing for Social Work (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Reasoning and writing skills for comprehending and communicating information in social work.

355 Strategies for Preventing and Intervening in Family Violence and Abuse (4)

(crosslisted as NURS 355)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Major theories used to explain family violence; emphasis on preventing abuse and intervening with victims across the age span; social policy and legal issues.

GE Theme B

362 From Institutional Racism to Cultural Competency (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Theoretical and empirical data regarding institutional racism; increase understanding of diversity and cultural competency.

GE Theme H

370 Field of Social Work (4)

Social welfare: historical development, analysis of structure, policies, and issues; emergence of social work profession; contemporary practices and policies of social welfare agencies.

371AB Social Work Practice, Human Behavior, and Social Environment (4, 4)

Prerequisite: PSY 150. Application of social work practice principles, values, knowledge, and skills in assessment of human behavior within context of social environment.

371A Prenatal through early adolescence.

371B Late adolescence through old age.

372 Social Work Practice I: Communication and Interviewing Skills (4)

Prerequisite: SW 370. Integrative approach to generalist social work practice which examines and applies communication theory and interviewing skills in working with individuals, families, small groups, and communities.

391 Social Work Research Methods (4)

Prerequisite: SOC 210A or EDFN 452. Scientific, analytic approach to knowledge building and practice in social work; experimental, quasiexperimental, and single subject research designs; sampling, survey methods, case studies, exploratory-descriptive studies, and evaluation research.

400-Level Courses

Some 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

411 Computer Applications in Social Work (4)

Computers in field of social work and human service programs; includes use of DOS and major "applications" programs that have specific relevance to field of social work.

450 Crosscultural Practice with Aging Populations (4)

Prerequisite: Upper division standing. Ethnic factors in aging; ethnic specific and comparative analysis of ethnicity as it influences sociocultural context of older persons, care giving, and service delivery and utilization.

454 Selected Topics in Social Work (1-6)

Current topics of special interest in social work, as announced in *Schedule of Classes*. May be repeated for credit.

456 Multidisciplinary Teams, Child Maltreatment, and Family Violence (4)

Prerequisite: PSY 150 or SOC 201. Personal and professional responsibility in reporting, preventing, and treating child maltreatment; a multidisciplinary team approach to problems of child maltreatment and family violence.

461 Social Work Practice in Minority Communities (4)

Prerequisite: SW 370. Social work practice and its relationship to minority group communities; innovative methods of delivery of services; casework approaches, racism, role of social worker.

462 Institutional Racism and Poverty (4)

Prerequisite: SOC 201. Development of institutional racism and poverty; impact on social policy development and social service delivery; methods to reduce racism and poverty in America.

463 Women's Issues in Social Welfare (4)

Prerequisite: SW 370. Women's issues within social work practice areas; analysis of social welfare response to women's special concerns; social policy implications for future directions.

465 Programs and Policies Related to the Elderly (4)

Prerequisite: Upper division standing. Policies, programs, and service delivery systems related to the elderly; descriptive and normative analysis of social problems related to aging with emphasis on ethnic minorities.

466 Case Management with Older Adults (4)

Prerequisite: Upper division standing. Examination of frameworks and models lined to quality case management programs and services, with the underserved, culturally diverse, frail elderly; case finding, assessment, goal setting to promote community-based care.

474 Social Work Practice II: Working with Individuals and Families (4)

Prerequisite: SW 372. Examination of the generalist social work method: engagement, data collection, assessment, intervention case management, evaluation and termination. Development of ethnic sensitive, integrative practice and issues/concerns of social work practitioner.

475 Social Work Practice III: Working with Groups (4)

Prerequisite: SW 372. Integrative approach to generalist social work practice; study of human behavior in groups; use of groups to accomplish individual, family, organizational, and/or community goals.

476 Child Welfare (4)

Services to families, children, and youth; the network of preventive and supportive services; child neglect and abuse; children and the legal system; foster care, institutional care, group homes, and adoptions.

478 Social Welfare Policy and Social Services (4)

Identifying, formulating, implementing, and evaluating social welfare policy options including: education, employment, health, mental health, housing, justice, public welfare, and social security; design and implementation of social service delivery systems.

480 Social Work in the Criminal Justice System (4)

Development and application of individual, group, social change methods of social work in criminal justice system. Focus on methods used with victims and communities as well as offenders.

482 Social Work Practice IV: Community Organization (4)

Prerequisite: SW 372. Applies stages of the generalist social work method to community organizing, community analysis, dynamics of social power, and formal organizations.

485 The Homeless in Society (4)

Prerequisite: SOC 201 or 202. The homeless and homelessness including cultural, health/mental health, sociopolitical, economic, legal issues, consequences; policy, programs, service delivery responses and options. Lecture 3 hours, laboratory 3 hours.

486 Probation and Parole (4)

(also listed as SOC 486)

Prerequisite: SOC 480 or 482. History, philosophy, legal bases, and procedures governing investigation, treatment, and supervision of adjudged juvenile offenders and adult violators placed on probation and parole.

490 Latino Mental Health (4)

Prerequisite: SW 474 or other upper division course in mental health or counseling. Psychosociocultural aspects of mental health problems and issues within Latino community; factors affecting mental health, how professionals address them in social work and other human services; social work and human service implications for practice.

495 Directed Field Experience (4)

Prerequisites or corequisites: SW 472, 474, 475; Corequisite: SW 496. Student internship in a social agency; supervised activities in application of theory and skills acquired in foundation courses. Must be repeated to total of 12 units. Graded CR/NC.

496 Integrative Seminar (1)

Prerequisites or corequisites: SW 472, 474, 475; Corequisite: SW 495. Examination of the relationship between social work theory and practice to provide integration of academic and directed social work field experiences. Must be repeated to total of 3 units.

497 Social Work Proseminar (4)

Prerequisite: Sixteen upper division SW units. Comprehensive survey and analysis of selected areas of social work inquiry as announced in *Schedule of Classes*. May be repeated once for credit.

498 Cooperative Education

This cooperative education course may be repeated up to 16 units.

499 Undergraduate Directed Study (1-4)

Prerequisites: Senior standing, 2.75 overall grade point average, consent of a faculty sponsor, approval of proposed project prior to registration, ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report.

Graduate Level Courses (SW)

Some 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser:

Classified graduate standing is required for admission to all 500-level courses.

510A Human Behavior and the Social Environment I (4)

Prerequisite: Admission to the MSW program. Human growth and development from birth through adolescence including views based on biological, psychological, cultural, interpersonal, and social structural assumptions; applications to social work.

510B Human Behavior and the Social Environment II (4)

Prerequisite: SW 510A. Human growth and development from middle age through old age and death, including biopsychosocial, cultural, interpersonal, and structural assumptions.

510C Human Behavior and the Social Environment III (4)

Prerequisite: SW 510B. Review and critique of theories of human growth and development from a crosscultural perspective; emphasis on micro and mezzo theories for relevance to the biopsychosocial needs and problems of ethnic minority client systems.

520A Parameters of Practice (4)

Prerequisite: Admission to the MSW program. Historical development and theoretical foundations for generalist social practice; value base, principles and method for cross-cultural service delivery.

520B Micro Practice (4)

Prerequisite: SW 520A. Repertoire of practical skills derived from variety of theoretical frameworks for selective application for professional social work practice with diverse, micro-level client systems.

520C Mezzo and Macro Practice (4)

Prerequisite: SW 520B. Social work interventions with natural and formed groups, understanding for community development, especially in low-income minority communities; analyses of community organizations and their effect upon delivery of social services.

530A Social Welfare Policies and Services I (4)

Prerequisite: Admission to the MSW Program. Social Welfare policy; examination of history, philosophy, ethics, function and structure of the social welfare institution and the social work profession within sociopolitical, economic and cultural systems.

530B Social Welfare Policies and Services II (4)

Prerequisite: SW 530A. Programs of social insurance and social assistance, income transfer and income maintenance; analyses of issues with regard to entitlements, coverage and eligibility.

540 Social Welfare Research and Statistics (4)

Prerequisites: Admission to the MSW program; a course in statistics. Research designs and methodologies in social work; problem formulation, sampling techniques, instrument construction, evaluation research.

549 ABC Field Practicum (4, 4, 4)

Prerequisite: Admission to the MSW program. Supervised field placement for advanced generalist practice with individuals, families, groups and communities. Graded CR/NC.

551 Advanced Practice I: Family (4)

Prerequisite: Completion of SW 549C. Advanced level of theory and practice focusing upon prevention, crisis intervention and short-term treatment with children, youth, women, and families.

552 Advanced Practice I: Aging and Families (4)

Prerequisite: Completion of Foundation Year. Advanced level of practice addressing theories of aging, health and medical needs of the elderly; critical care issues affecting this population.

553 Advanced Practice II: Family in Cultural Minorities (2)

Prerequisite: SW 551. Theory and practice with ethnically, racially, religiously diverse populations utilizing a multi-dimensional cross-cultural framework and case materials to analyze treatment issues and empowerment strategies for children, youth, women and families.

554 Advanced Practice II: Aging in Cultural Minorities: Aging and Families (2)

Prerequisite: SW 552. Examination of special needs of elderly minorities; methodologies for providing direct and indirect services.

555 Advanced Practice III: Integrative Seminar (2)

Prerequisite: SW 553 or SW 554. Interventions based on gender, race, age and class factors in service delivery; prevention, funding, grantsmanship and program evaluations. Special emphasis on disadvantaged communities.

561 Policy and Services/Applications: Family (2)

Prerequisite: SW 553. Critical analysis of social systems, policies and programs designed to provide human services to culturally diverse individuals, families and groups.

562 Policy and Service/Applications: Aging and Families (2)

Prerequisite: SW 554. Analysis of federal, state and Local policies including Medicare and Medi-Cal; emphasis on financing and budgeting of program; legal mandate for various social work interventions.

571 Administration and Management of Agencies Serving Children, Youth, Women and Families (4)

Prerequisite: SW 561. Issues in management and organizational behavior within human service systems; leadership; decision making; conflict resolution; program and staff development; fiscal management; working with boards and volunteers.

572 Administration and Management of Agencies Serving the Aging and Families (4)

Prerequisite: SW 562. Issues in management and organizational behavior within human service systems dealing with aging populations; leadership, decision making, conflict resolution; program and staff development; fiscal management; working with boards and volunteers.

581 Poverty and Institutional Racism (2)

Prerequisite: Completion of SW 549C. Historical and contemporary manifestations of institutional racism in America and its effects upon the economic status of oppressed populations.

583 Immigration, Social Policy and the Social Services (2)

Prerequisite: Completion of SW 549C. Past and current issues in American immigrant legislation; impact upon the social services delivery system from perspectives of the social work practitioner and the recent immigrant.

591ABC Field Practicum: Children, Youth, Women and Families (6, 6, 6)

Prerequisite: Completion of Foundation year. Advanced case and group management and community planning responsibilities in a supervised field setting. Graded CR/NC.

592ABC Field Practicum: Aging and Families (6, 6, 6)

Prerequisite: Completion of Foundation year. Advanced case and group management and community planning responsibilities in a supervised field setting. Graded CR/NC.

598 Graduate Directed Study (1-4)

Prerequisite: SW 549 and Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. Repeatable for up to 12 units.

599A Thesis or Research Project I (2)

Prerequisite: SW 540. Formulation and design of a thesis or research project incorporating quantitative and/or qualitative data obtained from the field practicum concentration. Graded CR/NC.

599B Thesis or Research Project II (2)

Prerequisite: SW 599A. Completion of data collection and preparation of a draft of the thesis or research project. Graded CR/NC.

599C Thesis or Research Project III (2)

Prerequisite: SW 599B. Completion of a thesis or research project focusing upon the presentation of data and the conclusion, implications, and recommendations for individual, social or institutional change derived from the findings. Graded CR/NC.

Department of

Sociology

School of Natural and Social Sciences

DEPARTMENT OFFICE

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Sociology is the scientific study of social behavior, social institutions, and social structure. It provides a background of understanding and research skills for students interested in a variety of occupations. The department's programs prepare students for advanced professional study in sociology and social work, as well as positions in public and private social service agencies. Sociology will have a particular appeal to students whose intellectual and career interests are broad and unspecialized.

Sociology majors study a variety of subjects which include race relations, marriage, religion, child development, aging, demography, crime, corrections, occupations, mass communication, social deviance, politics, social psychology, and classical and contemporary sociological theories. The primary purpose of the academic program in sociology is to enhance students' analytical abilities and understanding of social phenomena.

Students pursuing legal, educational, and governmental careers may benefit from sociological perspectives on human relations. Students who intend to follow careers in sales, management, marketing, personnel, public relations, advertising, journalism, recreation, home economics, criminal justice, nursing, and comparable areas may find particular value in combining the study of sociology with their professional preparation.

The Bachelor of Arts degree in Sociology, minors in Sociology and in Social Gerontology and the Master of Arts degree program are described below.

The Faculty

Professors: Janicemarie Allard, William D. Darrough, Steven L. Gordon, Lawrence K. Hong, Terry R. Kandal, Delos H. Kelly (*Chair*), Eleni N. Pitsiou-Darrough, Jon Snodgrass, Ronald T. Tsukashima, Eui-Young Yu.

Associate Professors: Bernard B. Berk, Cristina Bodinger-de Uriarte, Timothy Diamond, Janet Lever, Yehudi Webster.

Assistant Professors: Richard Anderson-Connolly, Maria Celia MacDowell dos Santos

Emeriti: Marion V. Dearman, Esther Penchef, Paul K. Rowan, Fred J. Shanley, Ralph Thomlinson.

Undergraduate Programs

Bachelor of Arts Degree

The Department of Sociology offers a Bachelor of Arts degree in Sociology. Also offered are minors in Sociology and in Social Gerontology, for students majoring in other fields.

Required Advisement

All students desiring to undertake a major or minor in sociology must confer with a department adviser during their first quarter in the program. During the first quarter of their junior year, students must meet again with an adviser to plan the remainder of their program. Transfer students must see an adviser in their first quarter of enrollment at Cal State L.A.

Sequence Recommendation

To facilitate scheduling, specific prerequisites have been omitted from most courses. It is highly recommended, however, that suggested sequences be observed, since later course work will assume familiarity with prior course material. The following are strongly recommended or required:

Students who transfer without having completed equivalent courses should include SOC 201 and 210AB among their first courses at Cal State L.A.

- SOC 390 should be taken soon after 210AB.
- Sociology majors should take SOC 412 before 414; and
- SOC 410 must be taken before 490.

Requirements for the Major (66 units)**Required Courses (26 units)**

SOC 201	Principles of Sociology (4)
SOC 210AB	Elementary Statistics (3, 3)
SOC 301	Writing for Sociology (4)
SOC 390	Methods of Social Research (4)
SOC 412	Classical Sociological Theory (4)
SOC 414	Contemporary Sociological Theory (4)

Upper Division Electives (40 units)

Select courses in sociology and other fields, in consultation with adviser; a program may include SOC 398, SOC 498, (also listed as UNIV 398, UNIV 498) and SOC 499, but no more than 8 units of any combination of these courses normally may be counted toward the major. With prior approval of adviser, up to 8 units may be selected in other fields to complete a comprehensive sociological program with an interdisciplinary emphasis.

Note: SOC 323, SOC 325, SOC 330, and SOC 341 may not be used as electives in the sociology major program.

Internship

By enrolling in one of the following courses, SOC 398 and SOC 498 (also listed as UNIV 398 and UNIV 498) sociology majors can earn up to 4 credits per quarter for a maximum of 8 credits in a directed internship program. Students must

arrange a work agreement with any approved agency; one unit of credit is equivalent to 30 hours of agency work per quarter. The intern also meets with the departmental internship coordinator during the quarter and submits a journal of activities and a short final paper based on applying concepts studied in upper division Sociology courses (through prior or concurrent enrollment). See the internship coordinator for specific prerequisites, list of approved agencies, and other program details.

Minor in Social Gerontology

The minor in Social Gerontology is designed to prepare individuals for occupations related to the needs and activities of older persons, and for advanced research in the field of aging. The minor requires completion of 24–28 units.

Requirements for the Minor (24–28 units)

Lower Division Required Course (4 units)

SOC 201 Principles of Sociology (4)

Upper Division Required Courses (8 units)

SOC 322B Human Socialization: The Adult Years (4)

SOC 450 Sociology of Aging (4)

Electives (12-16 units)

Select up to 8 units from each group, with adviser approval:

Group I

SOC 300 Cultural Emotions (4)
 SOC 390 Methods of Social Research (4)
 SOC 425 Medical Sociology (4)
 SOC 427 Society and Mental Illness (4)
 SOC 452 Life Span Transitions: The Retirement Years (4)
 SOC 453 Social Aspects of Death and Bereavement (4)
 SOC 485 Conflict and Domestic Violence (4)
 *SOC 497 Sociology Proseminar (4)

*Only When Topical Area is Gerontology.

Group II

SW 450 Crosscultural Practice with Aging Populations (4)
 SW 461 Social Work Practice in Minority Communities (4)
 SW 465 Programs and Policies Related to the Elderly (4)
 SW 472 Community Organization (4)
 SW 478 Social Welfare Policy and Social Services (4)
 PSY 462 Psychology of Human Development: Maturity and Aging (4)

Minor in Sociology

A minor in Sociology provides valuable preparation for students majoring in business, criminal justice, journalism, recreation, and other fields.

A total of 28 units in required and elective courses comprises the minor in Sociology. Students who have an equivalent research methods course in their major may substitute another four-unit, 400-level sociology course for the SOC 390 requirement below. A statistics course normally is prerequisite to SOC 390.

Requirements for the Minor (28 units)

Lower Division Required Course (4 units)

SOC 201 Principles of Sociology (4)

Upper Division Required Courses (8 units)

SOC 390 Methods of Social Research (4)

SOC 414 Contemporary Sociological Theory (4)

Electives (16 units)

Select additional upper division courses with adviser approval.

SOC 398, 498 and 499 may not be included as electives for the Minor in Sociology.

Graduate and Postbaccalaureate Programs

Master of Arts Degree

The Master of Arts degree in Sociology provides advanced study in sociological theory and methods of research with a variety of subject matter emphases that students plan with a graduate adviser. The program prepares students for doctoral studies, teaching at the secondary or community college level, or working in a professional capacity in governmental or private agencies or organizations. Two options are offered. Option A requires a thesis, and Option B requires a comprehensive examination.

Admission to the Program

Prerequisites to admission are 36 undergraduate units in sociology. These must include SOC 201, 210AB, 390, 412, 414, and other courses as necessary. Satisfactory equivalents will be determined by a graduate adviser in sociology.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Required Courses (12–20 units)

SOC 410 Advanced Statistics (4)
 (If not taken in undergraduate standing)
 SOC 490 Quantitative Research Methods in Sociology (4) **or**
 SOC 491 Qualitative Research Methods in Sociology (4)
 (If not taken in undergraduate standing)
 SOC 512 Seminar: History of Sociological Theory (4)
 SOC 514 Seminar: Contemporary Sociological Theory (4)
 SOC 590 Seminar: Sociological Research (4)

Electives (19–33 units)

These must include 8 units of 500-level SOC seminars for students who elect Option A and 11 units for Students who elect Option B.

Comprehensive Examination or Thesis (0, 6 units)

Students elect Option A or Option B.

Option A: Thesis (6 units)

SOC 599 Thesis (6)

Oral defense of the thesis is required.

Option B: Comprehensive Examination (0 units)

SOC 596 Comprehensive Examination (0)

The comprehensive examination (SOC 596) is a written examination in three fields of concentration: theory, methods, and one other field selected by the candidate and approved by the adviser. Students should expect to take the comprehensive examination the quarter they complete all course work on their program and must comply with school and department requirements. Students are allowed a maximum of two attempts to complete the comprehensive examination successfully.

List of Courses (SOC) - Undergraduate Level**Lower Division Courses****101 Social Problems (4)**

Methods that social institutions and interest groups use to define "social problems" including poverty, substance abuse, delinquency, racism, sexism, crises in education and health care, and urban/environmental issues; policy implications.

120 Intimate Relationships in our Diverse Society (4) (also listed as CHDV 120)

Principles of interaction in intimate relationships in our diverse society. Understanding/valuing diversity and similarity (gender, ethnicity, class, etc.) in achieving intimacy. Developing knowledge/skills for dealing with relationship issues. **GE E**

201 Principles of Sociology (4)

Social institutions and group behavior; social order and change. Issues include hegemony, pluralism, distribution of privilege and power, sources of cooperation and conflict, deviance and social control. **CAN SOC 2 GE D**

202 Society and Individual Development (4)

Micro through macro level institutional contexts and social-psychological and physiological processes affecting individual development. Persistent themes of family, sexuality, religion, aging, economics, and inequality, as interconnected with gender, age, culture. **GE E**

209 Microcomputer Applications in Sociology (4)

Use of microcomputers in sociology. Use of word processing, spreadsheet, data base, and other software in preparing reports, charts, graphs, mass mailing, data processing, and managing information.

210AB Elementary Statistics (3, 3)

Recommended prerequisite: Basic college mathematics course. Basic social statistics, covering descriptive statistics, tables, charts, summary measures, regression and correlation, and statistical inference, sampling, predictive models, analysis of variance, non parametric and parametric tests, and simple multivariate analysis. Lecture 2 hours, laboratory 2 hours.

263 Asian-American Experience (4)

Comparative experiences of the Chinese, Japanese, Korean, Filipino, Pacific Islander, Southeast Asian refugee and other Asian groups in the United States. Immigration, adaptation, discrimination, identity, alienation, stratification, and other contemporary issues. **GE D**

Upper Division Courses

SOC 201 normally is prerequisite to all upper division courses in sociology and may be waived only with instructor consent.

300 Cultural Emotions (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Human emotions as organized within social relationships and institutions of family, religion, education, government, and economy; cultural norms and vocabulary; ethnic, sex, and social class diversity in feeling and expression. **GE Theme E**

301 Writing for Sociology (4)

Prerequisite: ENGL 102*, satisfactory completion of Graduation Writing Assessment Requirement (GWAR). Reasoning and writing skills for comprehending and communicating information in sociology.

**Students subject to catalogs earlier than 1993-95 satisfy this prerequisite with ENGL 101 or 190.*

322A Human Socialization: Childhood and Adolescence (4)

Social-psychological approaches to socialization, comparing stages of personal growth and development from childhood to adolescence. Emphasis on pertinence of socialization and basic issues of social control and change.

322B Human Socialization: The Adult Years (4)

Social-psychological approaches to socialization, comparing stages of personal growth and development during early, middle, and late adulthood. Emphasis on pertinence of socialization and basic issues of social control and change.

323 Socialization: Maturity and Aging (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Social-psychological approaches to socialization, comparing stages of development during adulthood and aging; emphasis on changes in family relationships, work, retirement; issues of social control and change; ethnic and cross-cultural comparisons. **GE Theme F**

325 Social Issues in Wellness (4)

Prerequisite: Completion of lower division GE Block D requirement before enrollment. Changing social definitions of wellness; social expectations; role of society and culture in wellness-related decision making. *No credit toward sociology majors and minors.*

330 Social Issues in the Urban Setting (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Social issues in urban setting; ethnic, cultural and class diversity; cross-cultural comparisons; population and environmental concerns; and social planning. **GE Theme D**

341 Sociology of Gender Roles (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of: Research on changing roles of men and women across social institutions; social movements for equality; theories of gender role differentiation; historical, cross-cultural, and racial/ethnic/class variations.

GE Theme C

348 Class, Race/Ethnicity, and Gender (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Examination of the major inequalities in the modern world, social class, sex/gender, ethnicity/race; processes by which inequalities are maintained; variations in social conflict; (in) justice, (in) equality, (un) fairness, and (in) dignity.

GE Theme H

383 Violence in American Society (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block D. Forms of violence in American Society (e.g., criminal, domestic, revolutionary, official, sexual) examined through a critical review of social scientific literature; assessment of causes, consequences, and possibilities for control.

GE Theme B

390 Methods of Social Research (4)

Prerequisite: SOC 210AB. Application of scientific method to sociological data; research design, data collection, elementary analysis procedures; survey and experimental designs, measurement, scale, and index construction, and prediction models. With instructor consent, one unit of SOC 499 may be taken concurrently.

400-level Courses

All 400-level courses may be applied toward master's degree requirements subject to limits established by the department and approval of the graduate adviser.

410 Advanced Statistics (4)

Prerequisite: SOC 210AB. Specialized treatment of probability and sampling, prediction and correlation, analysis of variance and covariance, experimental design and probability model construction. Recommended for Sociology majors planning graduate study.

412 Classical Sociological Theory (4)

Historical development of sociological theory with special reference to its European origins; e.g., Comte, Saint-Simon, Marx, Spencer, Durkheim, Simmel, and Weber.

414 Contemporary Sociological Theory (4)

Functionalism, conflict sociology, interactionism, critical-radical sociologies, systems analysis, and phenomenological perspective.

415 Political Sociology (4)

(also listed as POLS 415)

Prerequisite: POLS 150 or SOC 201. Social factors underlying democracy and totalitarianism, social movements and revolutions, conflict and conflict resolution, voting behavior, and political socialization.

418 Crowd Behavior and Social Movements (4)

Analysis of crowd types, formation, and dynamics, including mobs, riots, panics, mass hysteria, rumors, fads, and fashion. Development, tactics, ideologies, and effects of social movements, cults, and rebellions.

420 Small Groups (4)

Small group processes in industry, the family, schools, peer and colleague groups; reference-group behavior, relation to larger social systems, group structure and communication, development of research techniques.

421 Social Sources of Human Sexuality (4)

Effects of social environment on emergence, justification, and maintenance of sexual attitudes and behavior; social factors influencing sexual behavior; changing sociosexual mores and behavioral patterns, and emerging sexual life styles.

422 Social Psychology (4)

Inquiry into social-psychological dimensions of group behavior, emphasizing interactive processes involved in communication, group behavior, perception, attitude formation, motivation, socialization, and evolution of self-concept.

424 Mass Communications and Public Opinion (4)

Sociological analysis of print and electronic mass media of communications; examination of their functions, sociocultural evolution, organizational/occupational bases, cultural content, audiences; consideration of individual, collective effects on public opinion.

425 Medical Sociology (4)

Role of the hospital and socialization process on professional development of personnel in the healing professions; social epidemiology of physical and mental disorders.

426 Deviant Behavior (4)

Basic theoretical orientations to social and personal disorganization resulting from role conflict, social conflict, normlessness, or alienation; individual and social deviance related to group processes and structures.

427 Society and Mental Illness (4)

Lay and professional ideas about mental illness in historical and crosscultural perspective; organizational treatment of the mentally ill; identity, stigma, and adaptations.

430 Urban Sociology (4)

Urban community and urbanization as contemporary social process; consideration of urban areas, institutions, values, and problems; social and demographic characteristics, urban and suburban change and planning.

432 Science, Technology, and Social Character (4)

Effects of scientific and technological development upon social life and culture, especially family, work and leisure, modes of thinking and feeling. Differences among social classes, ethnic groups women and men.

434 Social Aspects of Population Trends (4)

Population facts, changes, problems, and policies; population dynamics, especially births, deaths, and migration; national action programs; world coverage, with emphasis on the U.S.

435 Asian Societies (4)

Comparative analysis of Asian societies; population, social thought, institutions, stratification, education, industrialization, and urbanization in Asia focusing on China, Japan, Korea, and southeast Asia.

440 Marriage and the Family (4)

The family as a social institution; historical and crosscultural perspectives, social change as it affects marriage and family life. Analysis of American courtship and marriage patterns, psychodynamics of family life.

441 Theory and Research on Sex Roles (4)

Advanced sociological analysis of sex role differences; implications of differential socialization of sexes; access to educational and occupational opportunities; differences in legal status; movements for equality.

442 Social Change (4)

Classical and contemporary theories of sources and consequences of social change; revolutions and alternative routes to modern world; issues in historical sociology; change and social contexts of creative achievements in arts and sciences.

443 Alternative Family Life Styles (4)

Social change in man and woman relationships, including single life styles, nontraditional marriage and family forms, communes, and utopian societies; evaluation of benefits and costs to individuals and society.

444 Sociology of Popular Culture (4)

Art, film, literature, music and television are examined in terms of social roles, social processes, context and the construction of meaning. Popular culture is studied as reflecting, reinforcing or challenging norms.

445 Sociology of Religion (4)

Social bases of religion, religious institutions, and their modern organizational life; comparative analysis and theories of religious behavior; religious institutions, their representatives, religious conflict, and public law.

446 Sociology of Business Organizations (4)

The sociological understanding of control in different technical, structural and commercial settings. Corporate culture, work subcultures, role constructions, and network processes are emphasized. Case studies are used.

447 Sociology of Occupations and Professions (4)

Analysis of the social world of work: occupational trends and mobility; occupations, education, and minorities; nature of professions and professional processes and structures; study of selected occupations and professions.

448 Social Class and Inequality (4)

Examination of sociological theory and research bearing on social stratification; social differentiation: class position, class interests, correlates of social class; trends in occupational mobility, comparison of stratification systems.

450 Sociology of Aging (4)

Aging as a social process; emphasis on sociological theories of aging and social problems of the aged; nature of aging process, work, retirement, family relationships, housing, income maintenance; societal response to aged.

452 Life Span Transitions: The Retirement Years (4)

Critical evaluation of issues involved in planning for retirement; changing place of work and retirement in value system; anticipatory behavior, patterns and modes of adjustment, maladjustment; proposals and issues.

453 Social Aspects of Death and Bereavement (4)

Concepts and theories of dying; meaning of death and its implications for dying persons, survivors, and professionals who attend them.

454 Selected Topics in Sociology (1–6)

Current topics of special interest in sociology, as announced in *Schedule of Classes*. May be repeated for credit.

460 Race and Ethnic Relations (4)

Structure and change of minorities in society; theories and research: historical, contemporary, and comparative; processes of adjustment: patterns of immigration, prejudice, discrimination, assimilation, pluralism, conflict, and social movements.

480 Criminology (4)

Criminal law, crime, and deviance. Social and psychological factors in criminal behavior, criminal law, and criminal justice; prevention and control; trends in theory and correctional procedures.

481 Policing America (4)

Social role of American police. Historical, political and social contexts of policing. Selected issues; the controversial police mandate, use-of-force/accountability, community policing, the future of policing in America.

482 Juvenile Delinquency (4)

Extent and distribution of delinquency, with emphasis on the local area; meaning, implications, and treatment of delinquent behavior; personal and environmental conditioning factors; delinquency and the rights of children.

484 Corrections (4)

Survey of procedures used in processing the offender, from arrest, through trial, to prison and probation; contemporary theories of criminality and rehabilitation applied to the social evaluation of these procedures.

485 Conflict and Domestic Violence (4)

Sociological aspects of domestic violence in families (e.g., child, spouse, and elder abuse) examined in relation to ethnic, social, cultural, historical, economic, and political factors that affect individual behavior.

486 Probation and Parole (4)

(also listed as SW 486)

Prerequisite: SOC 480 or 482. History, philosophy, legal bases, and procedures governing investigation, treatment, and supervision of adjudged juvenile offenders and adult violators placed on probation and parole.

490 Quantitative Research Methods in Sociology (4)

Prerequisites: SOC 390, 410. Advanced research techniques in sociology, including design of experiments, sample surveys and panel studies, scaling, multivariate and computer data analysis procedures. Individual projects; laboratory. With instructor consent, one unit of SOC 499 may be taken concurrently.

491 Qualitative Research Methods in Sociology (4)

Prerequisite: SOC 390. Qualitative research techniques in sociological research: research in field settings; problems of participant observation and interviewing; document analysis; typology construction; qualitative data interpretation and presentation.

497 Sociology Proseminar (4)

Prerequisite: Sixteen upper division SOC units. Comprehensive survey and analysis of selected areas of sociological and social welfare inquiry, as announced in *Schedule of Classes*. Recommended for majors planning or beginning graduate study. May be repeated once for credit. With instructor consent, one unit of SOC 499 may be taken concurrently.

499 Undergraduate Directed Study (1–4)

Prerequisites: Senior standing, 2.75 overall grade point average, consent of a faculty sponsor, approval of proposed project prior to registration, and ability to assume responsibility for independent research and analysis. Regular discussion of progress with sponsor before presentation of final written report. May be repeated for credit.

Graduate Level Courses (SOC)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission for all 500-level courses.

512 Seminar: History of Sociological Theory (4)

Historical dimensions, European and American, of development of systematic sociological theory and method; continuity and critique of major contributions to theories of society and the social processes.

514 Seminar: Contemporary Sociological Theory (4)

Exploration and critique of problems, methods, and theories characteristic of contemporary sociological inquiry; their relationship and contribution to advancement of sociological theory and application to selected social problems.

521 Seminar: Sociology of Knowledge (4)

Relationships of scientific, artistic, legal, and intellectual activities to social structure, institutions, and historical change.

522 Seminar: Social Psychology (4)

Analysis and critique of current approaches and investigations of the social processes that bind individuals and groups.

526 Seminar: Sociology of Deviant Behavior (4)

Prerequisites: SOC 426, instructor consent. Analysis of major theoretical approaches and empirical studies in deviance; selected topics and current issues in study of social deviance.

530 Seminar: Urban Social Systems (4) (also listed as GEOG 530)

Prerequisite: Instructor consent. Growth and nature of urban social systems in selected cities and metropolitan areas, theories of urban structure and problems, improving quality of urban life, comparisons of cities in various countries.

534 Seminar: Population (4)

Prerequisite: SOC 434. Problems of population growth; social and psychological factors in population dynamics; population planning and policy.

540 Seminar: Marriage and the Family (4)

Advanced study of sociopsychodynamics of marriage and the family; emphasis on recent research on family change, parent-child relationships, and family instability; successful family life.

544 Seminar: Social Organization and Institutions (4)

Advanced consideration of selected macrosocial structures and their related processes and functions: total societies, institutional subsystems, complex organizations, ethnic subsocieties, professions; emphasis varies.

560 Seminar: Racial and Ethnic Minorities (4)

Prerequisite: SOC 460 Recommended. Examination in depth of critical problems and trends affecting American minority groups; emphasis on analysis of change in strategies, tactics, ideologies, theories, and consequences of minority group relations.

580 Seminar: Criminology (4)

Prerequisite: SOC 480. Advanced study of criminal behavior, social deviance, and social structure; comparative studies of contemporary criminality, criminal justice, and criminal codes; legal, medical, and psychiatric interpretation of criminal behavior.

584 Seminar: Corrections (4)

Advanced study of sociological aspects of treatment of offender from arrest to release process; discussion of cross-cultural practices and current theories.

590 Seminar: Sociological Research (4)

Prerequisite: SOC 490 or SOC 491; recommended corequisite: SOC 597. Advanced study in behavioral research methodology; qualitative methods; survey design; experimental design, analysis; problems of interpretation, scaling techniques, models, simulation, computer data analysis, supervised application of methods.

595 Critical Issues and Problems in Sociology (4)

Prerequisite: Instructor consent. Critical areas of social inquiry and special problems of sociology as a social science and as a profession. Content varies; see *Schedule of Classes* for specific topic. May be repeated once for credit.

597 Graduate Research (1-3)

Prerequisite: Consent of faculty sponsor. Proposed study must be approved prior to registration. Directed empirical research on a problem in sociology from conception through design; data gathering, analysis, and final written report. May be repeated for credit. Graded CR/NC.

598 Graduate Directed Study (1-4)

Prerequisite: Consent of faculty sponsor. Proposed study must be approved prior to registration. Directed reading and critical analysis of a problem in sociology; written reports and conferences. May be repeated for credit.

599 Thesis (1-3)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor department approval of topic prior to registration. Independent research resulting in a thesis. Must be repeated to maximum of 6 units. Graded CR/NC.

Division of**Special Education**

Charter School of Education

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Program Advisement:

The Charter School of Education's Division of Special Education offers program advisement for the basic credential in special education, advanced credential programs in special education approved by the California Committee on Accreditation, and master's degrees in Special Education as well as the Ph.D. program in Special Education offered jointly with the University of California at Los Angeles (UCLA). These programs are described in this section. Other general information about credentials and degree programs can be found in the *Undergraduate Study* and *Graduate and Postbaccalaureate Study* sections of this catalog.

Courses offered in:

- Higher Education (EDHI)
- Special Education (EDSP)

Credentials Offered:

Educational Specialist in Special Education (Basic Credential in Special Education-may begin preparation in undergraduate status), Early Childhood Special Education, Mild/Moderate Disabilities, Moderate/Severe Disabilities, Multicultural/Multilingual Special Education, Physical and Health Impairments, Resource Specialist in Special Education, Visual Impairment and Blindness; and. Clinical Rehabilitative Services: Orientation and Mobility for Blind and Visually Impaired.

Degrees Offered:

M. A. degree in Special Education with Options in: Early Childhood Education, Facilitating Behavior Change, Gifted Education, Inclusion Facilitator, Mild/Moderate Disabilities, Moderate/Severe Disabilities, Multicultural/Multilingual Special Education, Physical and Health Impairments, Resource Special in Special Education, Transition Studies, Visual Impairment and Blindness: Orientation and Mobility, and Visual Impairment and Blindness: Teacher Education. Ph.D. in Special Education (offered jointly with UCLA).

Certificates Offered:

Autism, Early Childhood Education, Resources Specialist in Special Education

The Faculty

Professors: Philip C. Chinn, Barbara J. Clark, Jamie Dote-Kwan, Mary A. Falvey, Christine C. Givner, Colleen B. Jamison, Christina H. Kimm, M. Diane Klein (Chair), Allen A. Mori, Andrea G. Zetlin.

Associate Professors: Sherwood Best, Diane Fazzi, Diane Haager, Nancy A. Hunt.

Assistant Professors: William Frea, David Palmer, June Szabo-Kifer.

Emeriti: Robert A. Eisenberg, Jean Utley Lehman, Jasper Little, Judith S. Margolis, C. Lamar Mayer, Rose-Marie Swallow, F. Annette Tessier, Alice V. Watkins.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Special Education

The Master of Arts degree in Special Education provides administrators, teachers, and therapists with advanced preparation for work with exceptional learners. Master's degree candidates must incorporate the specialist credential requirements in their area of specialization as a part of their program. (This requirement may be waived for personnel such as nurses, occupational or physical therapists, or orientation and mobility specialists.) The master's degree programs include a choice among 13 options.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a 2.75 grade point average in their last 90 quarter units attempted, must have completed (or complete concurrently) requirements for a California credential in Special Education (except in selected areas), must complete all division application procedures, and must obtain approval from the division. A number of scholarships and traineeships is available to qualified students. Interested students should contact the division office.

Advisement

Students should seek advisement for all Special Education credential and graduate programs in the Division of Special Education.

Credential candidates must attend a group advisement session (offered at approximately two-week intervals) prior to admission.

Requirements for the Degree (45 units minimum)

A minimum of 45 units is required, with at least one-half (23 units) in 500-level courses. The candidate must maintain a minimum 3.0 (B) grade point average, with no grade lower than C. The program has four components: (1) Credential requirements; (2) M.A. Core; (3) required specialization courses and electives that are approved by the adviser; and (4) the comprehensive examination or thesis/project requirement. Students may pursue the thesis or project option only when they meet specified division and school criteria. See *Restriction on Credit Earned in Variable Unit Courses* in the **Charter School of Education** section of the **Academic Programs: School-based and University-wide** chapter.

Required Core for all M. A. Options (12 units)

EDSP 400	Foundations of Special Education (4)
EDSP 500	Research Methods in Special Education (4)
EDSP 501	Problems and Practices in Special Education (4) or
EDSP 511	Seminar: Issues and Strategies for Multicultural Special Education Students (4)

Comprehensive Examination or Thesis/Project (0 to 7 units)

EDSP 596	Comprehensive Examination (0) or
EDSP 599A	Thesis or Project Planning (3) and
EDSP 599B	Thesis or Project (2) and
EDSP 599C	Thesis or Project (2)

Students should expect to take the comprehensive examination (EDSP 596) the quarter they complete all coursework on their program and must comply with school and division requirements.

Options

Select one option from the following, with adviser consultation and approval. Special education credential and related courses may be included as approved by the faculty adviser.

Early Childhood Special Education

Required Courses (23 units)

EDSP 503, 512, 514*, 515*, 516*, 517

Electives

Select from the following list of courses or other related courses (to reflect an area of emphasis as approved by the adviser)

CHDV	501, 504
COUN	403
EDEL	466
EDSP	462, 463, 568, 540
PSY	433

* Courses marked with an asterisk are also required in the Credential program.

Facilitating Behavior Change

Required Courses (31 units)

COUN	501, 502, 592, 593
EDSP	512, 513, 550, 551, 554

Electives

Select from the credential program or other related courses as approved by the adviser.

COUN	406, 442, 460, 504*, 542A, 542B, 598
EDSP	505, 508, 555, 556, 582, 598

*Students who take COUN 504 will be eligible to apply for the Certificate in Applied Behavior Analysis.

Facilitating Behavior Change, Emphasis in Autism

Required Courses (28 or more units)

COUN	501 or EDSP 513, 502, 592
EDSP	409, 512, 550, 551, 554

Required Courses for Autism Emphasis (11 units)

EDSP	503, 586, 587
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** Prior to beginning any Master's Degree program, candidates must see a faculty advisor and develop a written program plan. It is the candidate's responsibility to see the advisor frequently regarding course selection and progress toward completion of the degree requirements.

Gifted Education

Note: A multiple or single subject credential is a requisite for this option.

Required Courses (19 units)

EDSP	440, 441, 503, 540, 541
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Electives

Select from the following list of courses or other related courses as approved the adviser:

COUN	450, 484
EDCI	453, 535
EDSP	408, 409, 512, 513

Inclusion Facilitator

Note: A Mild/Moderate or Moderate/Severe Educational Specialist Credential is a requisite for this option.

Required Courses (40 units)

EDSP 409*, 502*, 503, 508, 512*, 513*, 550*, 551*, 555, 582*, 583*

*Courses marked with an asterisk are also required for the credentials.

Mild/Moderate Disabilities**Required Courses (26 units)**

EDSP 409*, 512*, 513*, 550*, 551*, 555, 556

Electives

Select from the credential program or from the following listing of related courses as approved by the adviser.

COUN 501

EDCI 522

EDEL 535

EDSP 463, 502, 505, 508, 540, 554, 580, 581

*Courses marked with and asterisk are also required for the credential.

Moderate/Severe Disabilities**Required Courses (26 units)**

EDSP 409*, 512*, 513*, 550*, 551*, 581, 582

Electives

Select from the credential program or from the following listing of related courses as approved by the adviser.

COUN 501

EDCI 522

EDEL 535

EDSP 463, 505, 508, 540, 580

Multicultural/Multilingual Special Education**Required Courses (22 units)**

EDSP 408*, 409*, 512*, 513*, 550*, 551*

A. Select two courses in one of the methodology areas listed below (8 units)**Bilingual Methodology**

EDCI 453, 536, 549

EDFN 537, 540

EDEL 400S

or

ESL Methodology

EDEL 405

EDSE 430

TESL 560

TESL 562, 563

B. Select one culture course from the listing below:

ANTH 443

EDSE 590

CHS 406, 410, 440, 470, 504

PAS 400, 401

EDCI 535

PHIL 435

EDFN 437 or 438

SPCH 489

Electives

as approved by the adviser.

Physical and Health Impairments**Required Courses (12 units)**

EDSP 460*, 462*, 502

Electives

Select from the credential program or from the following list of related courses as approved by the adviser.

EDSP 505, 508, 510, 515, 516, 540, 550, 551, 554, 580, 582

*Courses marked with an asterisk also required in the credential program.

Resource Specialist in Special Education**Required Courses (27 units)**

EDSP 502, 503*, 510*, 512*, 550, 551, 555

Electives

Select from the credential program or other related courses as approved by the adviser.

* Courses marked with an asterisk are also required in the credential program.

Transition Studies**Required Courses (33 units)**

COUN 448, 449

EDSP 409, 512, 513, 550, 551, 581, 584

Electives (4 or more units)

EDSP 408, 508, 555, 556, 582, 598

COUN 405A, 428, 501, 506, 540A, 540B

Visual Impairment and Blindness: Orientation and Mobility**Required Courses (39 units)**

EDSP 465*, 469*, 475* 476A & 476B * 503* 575A & 575B * 576A & 576B * 598

Electives

Select from the credential program or other related courses as approved by the adviser.

* Courses marked with an asterisk are also in the credential program.

Visual Impairment and Blindness: Teacher Preparation**Required Courses (28 units)**

EDSP 409, 465*, 466*, 469*, 512*, 565, 567*, 568*

Electives

Select from the credential program or other related courses as approved by the adviser.

Credential Programs

Specialist Credential Programs

Recent modifications in credential programs, approved by the Commission on Teacher Credentialing, authorize the granting of Special Education credentials as “Basic” credentials rather than as an addition to the Multiple or Single Subject credential. The approved program at California State University, Los Angeles includes the following programs:

- Internship Credentials in Special Education
- Level I or Preliminary Credentials
- Level II or Professional Specialist Credentials
- Programs that combine a Specialist with a Multiple or Single Subject Credential
- Specialist Program combined with a Master of Arts Degree in Special Education

The following material provides general credential information.

The student must also read the advisement material of the Division of Special Education and must consult with a faculty adviser.

Note: Effective **January 1, 2000**, the RICA (*Reading Instruction Competence Assessment*) will be required of all students seeking Educational Specialist Credentials in the following areas: *Mild Moderate, Moderate/Severe, Physical and Health Impairments, Visual Impairments*. This examination is required by the State of California and **will not be waived** for any reason. The RICA became a requirement for Multiple Subject Credential candidates October 1, 1998.

Specialist Credential Program Areas

Education of Individuals with:

Mild/Moderate Disabilities: Preparation to teach students with mild/moderate learning disabilities, mental retardation and emotional/behavioral disabilities within the full range of placement options.

Moderate/Severe Disabilities: Preparation to teach students with moderate/severe disabilities, mental retardation, emotional/behavioral disabilities, and multiple disabilities within the full range of placement options.

Physical and Health Impairments: Preparation to teach students with orthopedic disabilities and other serious health impairments within the full range of placement options.

Visual Impairments and Blindness: Preparation to teach students birth-22 years who are blind or who have low vision within the full range of placement options.

Other Program Areas:

Early Childhood Special Education: Preparation to work with infants and young children with disabilities or at-risk, and their families.

Clinical Rehabilitative Services Credential: The Clinical Rehabilitative Services Credential with authorization in Orientation and Mobility training prepares individuals to work with children and adults who have visual impairments and blindness or other disabilities that necessitate this type of training.

Resource Specialist in Special Education Certificate. Preparation to work in resource specialist programs in public or private schools. Available to individuals who hold the “old” special education credentials

Admission to Credential Programs

All students who plan to enter a program for one of the Educational Specialist credentials must apply for admission to the Charter School of Education Credential Program. Students in upper division standing at Cal State L. A. are eligible to apply and enter the program. A minimum of 45 units beyond the baccalaureate is needed to obtain the Level II Professional Credential. Credential candidates must attend a group advisement session (offered at approximately two-week intervals) prior to admission to the Preliminary Level I program.

Preliminary Admission Requirements

Admission requirements are based on *Title 5, California Code of Regulations*, and University regulations. Students seeking admission to Cal State L. A. teaching credential programs must enroll in EDCI 300AB, *Introduction to the Teaching Profession*. Requirements for preliminary admission to credential programs include the following:

- Students must complete all requirements listed below to receive credit in EDCI 300AB.
- Complete application form.
- Record of oral interview with faculty adviser and completion of Program Planning Sheet.
- Verification of academic ability, as evidenced by a grade point average at or above the median of undergraduate students in the candidate's academic major but in no case lower than 2.5.
- Verification of negative TB test (taken within the last year) by a personal physician or at the Cal State L. A. Health Center.
- Verification of completion of PSY 150.
- Verification of having applied for the Certificate of Clearance.
- Successful completion of a supervised field experience.
- A written personal history that includes a statement of professional goals and educational philosophy.
- Official transcripts and letters of reference received and evaluated.

Completion of Admission Requirements

Students must satisfy the following three criteria before they are formally admitted to the program:

- Minimum C grade in SPCH 150 or passing score on Cal State L. A. Speech Proficiency Evaluation.
- Pass UNIV 400, The Writing Proficiency Examination (WPE) or acceptable alternative by petition.
- Verification of having taken the CBEST. (Students who have not passed the CBEST prior to entry into the credential program must have an approved plan of remediation on file with the Student Services Center in the Charter School of Education.)

Students are formally admitted to the teaching credential program upon completion of requirements stated above.

Admission Requirements for Internship Credential Programs

- Admission to the University.
- Application for admission to the credential program.
- Employment or commitment by a school district to employ the individual as a full-time teacher.
- B. A. or B. S. degree.
- Passing score on CBEST.
- EDSP 400 and 409; and EDEL 415 and 401 or EDSE 401 and 421.
- Completion of approved Multiple or Single Subject academic program or appropriate examination.

Admission Requirement for Students who hold a Preliminary Credential

Students who complete a preliminary (Level I) special education credential at Cal State L.A. may continue on for the professional clear credential. No additional application to the Charter School of Education is necessary.

Directed Teaching Information

Directed Teaching is one of the most important phases of teacher education at Cal State L.A. Candidates are not automatically admitted to directed teaching by completion of course work alone; they must fulfill the following criteria:

- Formal admission to the teaching credential program.
- Application for directed teaching by application deadline (Wednesday of second week of quarter preceding the assignment).
- Attendance at Special Education directed teaching orientation meeting during finals week of quarter preceding the assignment.
- Verification of completion of a Commission approved Multiple Subject Matter Program (for credentials with elementary emphasis) or Single Subject matter program (for credentials with secondary emphasis) or passing score on MSAT/SSAT Subject Assessments and recommendation of subject matter area department. Approved Multiple Subject and Single Subject matter programs are listed in the *Undergraduate Study* chapter of this catalog.
- Transcripts or grade reports verifying completion of at least 12 units at Cal State L.A. and all prerequisite courses. A minimum *B* (3.0) grade point average and grades of *C* or higher are required in all professional education courses.
- Verification of passing scores on all sections of CBEST.
- Present to the Office of Student Services (KH D2078) a Certificate of Clearance issued by the California Commission on Teacher Credentialing.
- Verification of negative TB test taken within one year before completion of directed teaching by a personal physician or at Cal State L.A. Health Center.

Students who meet all of the above criteria and who have completed the prerequisite course work will be approved for directed teaching. Because of the amount of time and work

required for directed teaching, students must restrict the number of units in their program (maximum of 6 units) and curtail their out-of-school workload for the duration of such assignments.

Educational Specialist Credentials

Special Education Specialist Credentials

Core requirements for Preliminary (Level 1)

Specialist Credentials except Early Childhood

- Bachelor's degree (including Constitution).
- Passing score on the California Basic Educational Skills Test (CBEST).
- Approved Multiple Subject matter program or appropriate examination (MSAT).
- EDCI 300AB is a prerequisite for admission to all specialist credential programs (includes field experience).
- Special Education group advisement

Required courses:

EDEL 415 or 415(S), 417 or 417(S)

EDFN 414

EDSP 400, 408, 409, 512*, 513**

EDSP 407 or 489, Directed Teaching I and II (includes seminar)

(Students who meet specified criteria may complete student teaching requirements in both regular and special education classes.)

**The Visual Impairment and Blindness credential requires this course in Level II rather than Level I.*

***EDSP 513 is not required for the V. I. credential.*

Core Requirements for Preliminary (Level II) Credentials

- EDIT 430 or CS 160 plus EDIT 447 or EDSP 508
- HS 456
- CPR Required
- An Induction plan is required jointly developed by the candidate, employing school district support provider CSLA faculty member.
- A minimum of 45 units after the bachelor's degree.

Note: Core requirements listed above in Levels I and II do not apply for the Early Childhood Special Education or the Orientation and Mobility credentials.

Specialization Requirements for the Credentials for Mild/Moderate and Moderate/Severe Disabilities

Preliminary (Level I) Credential

For Mild/Moderate Disabilities Credential

EDSP 550, 552, 553

For Moderate/Severe Disabilities Credential

EDSP 550, 551, 552, 463, or 587

Professional (Level II) Credential

Completed Level I Credential

EDSP 595A, 595B

Professional Development Activities

EDSP 555 (for Mild/Moderate) or

EDSP 582 (for Moderate/Severe) and

Select one of the following strands:Inclusion Cluster

EDSP 582, 555

Technology Cluster

EDSP 508, 463

Transition Cluster

EDSP 581, 584

Learning and Behavior Disorders

EDSP 502, 554

Autism Cluster

EDSP 586, 587

Secondary Education

EDSE 401, EDSP 581

Specialization Requirements for the Credential for Physical and Health Impairments**Core Requirements Preliminary - Level I - (37units)**

Bachelor's degree including Constitution, subject area program or appropriate examination, and approval by academic department.

EDFN 414	Social Foundations of Special Education (3)
EDEL 415 or 415 S	Proseminar: Curricular and Teaching of Reading (4)
EDEL 416 or 416S	Proseminar: Curriculum and Teaching of Writing/Language Arts (4)
EDEL 417 or 417S	Proseminar: Curriculum and Teaching of Mathematics (4)
EDSP 400	Foundations of Special Education (4)
EDSP 408	Cognitive and Linguistic Processes in Individuals with special needs (4)
EDSP 409	Assess Strategies and Curriculum Modification for Individuals with Exceptional Needs in Diverse Educational Settings (4)
EDSP 512	Building Partnerships in Special Education (2)
EDSP 513	Student Behavior & Social Interaction Skills (3)
EDSP 407	Direct Teaching in Special Education (5)
	or
EDSP 489	Demonstration of Instructional Competencies (5)

Note: Candidates who meet specified experience criteria and are approved by the faculty of the Division of Curriculum and Instruction may also be eligible for the Preliminary Multiple or Single Subject credential.

Specialization Requirements for Preliminary - Level I (17 units)

EDSP 462	Survey of Physical and Health Impairments (4)
EDSP 464	Assessment and Curricular Adaptations for Individuals with Low Incidence Disabilities (4)
EDSP 407	Directed Teaching in Special Education (9)
	or
EDSP 489	Demonstration of Instructional Competencies (9)

Core Requirements for Professional - Level II (12 to 13 units)

EDIT 430	Introduction to Computers and Their Uses in the Classroom (4) or
CS 160	Introduction to Computers (3) and
EDIT 447	Computers in Classroom (2) or
EDSP 508	Computer Applications in Special Education (4)
HS 456	Health Studies on Alcohol, Narcotics, Nutrition and Tobacco (4) CPR Required
EDSP 595A	Development of Induction Plan (2)
EDSP 595B	Seminar: Assessment of Induction Plan (2) Professional Development Activities

Specialization Requirements Professional - Level II (15 to 16 units)

EDEL 419 or 419S	Proseminar: Curriculum and Teaching of Social Science (4)
EDSP 460	Implications of Physical and Health Impairments (4)
EDSP 463	Augmentative Communication and Adaptive Technology in Special Education (4)
EDSP 570AB	Low Incidence Early Childhood Special Education (2-2)

Note: Credential candidates may choose to add the Multiple or Single Subject Professional Clear Credential by completing student teaching: EDEL 404 or 489, or EDSE 442B or 489. This requirement may be waived, by the faculty of the Division of Curriculum and Instruction, if specified experience and/or student teaching criteria are met.

Specialization Requirement for the Credential for Visual Impairment and Blindness:**Core Requirements Preliminary - Level I - (32 units)**

Bachelor's degree including Constitution, subject area program or appropriate examination and approval by academic department.

EDFN 414	Social Foundations of Special Education (3)
EDEL 415 or 415S	Proseminar: Curriculum and Teaching of Reading (4)
EDEL 416 or 416S	Proseminar: Curriculum and Teaching of Writing/Language Arts (4)
EDEL 417 or 417S	Proseminar: Curriculum and Teaching of Mathematics (4)
EDSP 400	Foundations of Special Education (4)
EDSP 408	Cognitive and Linguistic Processes in Individuals Special needs (4)

Core Requirements Preliminary - Level I (cont'd)

EDSP 409	Assessment, Strategies and Curriculum Modifications for Individuals with Exceptional Needs in Diverse Educational Settings & Instructor (4)
EDSP 407	Directed Teaching in Special Education (5) or
EDSP 489	Demonstration of Instructional Competencies (5)

Specialization Requirements for Preliminary - Level I (31 units)

EDSP 464	Assessment and Curricular Adaptations for Individuals with Low Incidence Disabilities (4)
EDSP 465	Introduction to Vision (3)
EDSP 465L	Functional Low Vision Assessment (1)
EDSP 466	Literary and Mathematical Braille (4)
EDSP 567	Academic Skills for Individuals with Visual Impairments and Blindness (4)
EDSP 568	Functional Skills for Exceptional Individuals (2)
EDSP 570AB	Low Incidence Early Childhood Special Education (2-2)
EDSP 407	Directed Teaching in Special Education (9) or
EDSP 489	Demonstration of Instructional Competencies (9)

Core Requirements for Professional - Level II (12 to 13 units)

EDIT 430	Introduction to Computers and Their Uses in the Classroom (4) or
CS 160	Introduction to Computers (3) plus
EDIT 447	Computers in Classroom (2) or
EDSP 508	Computer Applications in Special Education (4)
HS 456	Health Studies on Alcohol, Narcotics Nutrition and Tobacco (4) CPR Required
EDSP 595A	Development of Induction Plan (2)
EDSP 595B	Seminar: Assessment in Induction Plan (2)

Professional Development Activities**Specialization Requirements for Professional - Level II (10 units)**

EDSP 469	Psychological, Sociological and Vocational Implications of Visual Impairments and Blindness (4)
EDSP 512	Building Partnership in Special Education (2)
EDSP 569	Adaptive Technology in Visual Impairments (4)

Note: Credential candidates may choose to add the Multiple or Single Subject Professional Clear Credential by completing EDEL 419, 420 or EDSE 450 and student teaching: EDEL 404 or 489, or EDSE 442B or 489. The student teaching requirement may be waived if specified experience and/or student teaching criteria are met by the Division of Curriculum and Instruction.

Requirements for the Specialist Internship Credentials

(All Special Education Specialist Credentials Issued for 2 years)

Option I

- Employment by a participating school district in a special education program.
- Bachelor's degree (including Constitution).
- Completion of a Commission approved Subject matter program.
- Passing score on CBEST.
- Submit verification of completion of Commission-approved multiple subject matter program (for Multiple Subject credentials) or Single Subject matter program (for Single Subject credentials) or passing score on PRAXIS/SSAT Subject Assessments and recommendation of academic subject area department. Approved Multiple Subject and Single Subject matter programs are listed in the *Undergraduate Study* chapter of this catalog.
- Completion of approved Multiple or Single Subject Academic Program or appropriate examination.

Required Courses:

EDEL 415 or 415S or
EDSE 401
EDSP 400, 409
EDSP 489 (Fieldwork)

The 12 units of coursework must be completed prior to recommendation for the Internship Credential and the candidate must have commitment from a participating school district for employment as a special education teacher. The fieldwork must be taken during the first year of teaching. Candidates who demonstrate all fieldwork competencies during the first quarter may apply for a waiver of the second quarter.

Option II

Candidates who have completed the requirements for a Multiple or Single Subject credential and who have commitment from a participating school district for employment as a special education teacher may apply for a Special Education Internship credential. The fieldwork requirements are the same as above. The coursework will be included as part of the Preliminary credential requirements.

The Clinical Rehabilitative Services Credential for Visual Impairment and Blindness: Orientation and Mobility Training

Note: This credential program does not have provisions for the Level I and Level II authorizations, and does not utilize the core requirements of the Specialist teaching credentials. The requirements, as shown below provide for the Professional Practicum in English and Clear Credential.

EDSP 400, 406, 465, 469, 475, 476, 503, 575, 576

Option for Preservice or Internship Resource Specialist Training

Required Courses

EDSP 501*, 503 (6), 510*, 512*

*Must be taken before 503

The credentials and experience, as listed above, are prerequisites for the Internship certificate. Those requirements may be in progress for other students who enter the Resource Specialist Program.

Early Childhood Special Education Credential

Core Requirements for Preliminary (Level I) Specialist Credential

Note: The Early Childhood Specialist Credential Program does not utilize the core requirements of the other specialist credentials.

Prerequisites:

- B.A. Degree in Child Development or related field
- Experience with young children under five years of age
- CBEST
- EDCI 300AB is a prerequisite for admission to all specialist credential programs

General Special Education Requirements

EDSP 400, 408

Early Childhood Special Education Core

EDEL 461

EDSP 416, 514, 515, 516, 570B

Student Teaching/Fieldwork

EDSP 403, 407/489 (Infant-Toddler), 407/489 (Preschool)

Professional (Level II) Credential Requirements:

- Completed Level I Credential
- Employment as a teacher in an appropriate early childhood program
- CPR

Level II Core Requirements:

HS 456

EDSP 595AB (Induction)

Specialization Requirements for Level II:

EDSP 463, 517

Certificate Programs

Certificate Program in Autism

This program is designed to better prepare educators in establishing the unique behavioral and educational program often required for students with autism and other pervasive developmental disorders. New resources and technologies for supporting students with autism in school and community settings are being developed at a rapid rate. This program will provide students with substantive opportunity to acquire a depth of knowledge in the understanding of the needs of individuals with autism and the skills to address those needs.

Requirements:

EDSP 586	Educating Students with Autism (4)
EDSP 587	Teaching Functional Communication (4)
EDSP 513	Student Behavior and Social Interaction Skills (3)
EDSP 503	Field Work in Special Education (6)

Refer to **Graduate and Postbaccalaureate Study: General Information chapter** of this catalog for general regulations governing all certificate programs.

Certificate Program: Resource Specialist in Special Education

(Issued by Commission on Teacher Credentialing)

Note: Individuals completing the new Specialist credentials will qualify to serve children and youth in the Resource Specialist Program and will not require a separate certificate. For individuals who hold the old credentials, the Resource Specialist must possess valid teaching credentials in both regular and special education and have three years of full-time teaching experience that includes both regular class and special education experience. The Resource Specialist candidate must also complete the course work listed below.

Option for Preservice or Internship Resource Specialist Training

Required Courses:

EDSP 501*, 503 (6), 510*, 512*

*must be taken before 503

The credentials and experience, as listed above, are prerequisites for the Internship certificate. Those requirements may be in progress for other students who enter the Resource Specialist Program.

Early Childhood Special Education University Certificates

These certificate programs are designed for professional persons who already hold a credential and/or master's degree, but who are seeking the professional preparation that is related to working in school, agency, or home settings with infants or young children with exceptional needs. One area of emphasis provides professional preparation for working with infants and their families; the other emphasis is for working with children three to five years of age and their families.

Completion of this credit certificate program requires 30 units of course work with a minimum *B* (3.0) grade point average. Refer to the *Graduate and Postbaccalaureate Study* chapter of this catalog for general regulations governing all certificate programs.

Infancy Emphasis

Prerequisites:

- Bachelor's degree in Child Development or related field. Experience with infants and young children, ages birth to three.
- EDSP 400.
- Minimum 2.75 undergraduate grade point average in last 90 quarter units attempted.

Required Courses (30 units)

CHDV 501	Infants and Toddlers—Development and Care (4)
EDSP 408	Cognitive and Linguistic Processes in Exceptional Individuals with Special Needs (4)
EDSP 415	Educational Assessment Techniques for Young Handicapped Children (4)
EDSP 416	Working with Families of Young Handicapped Children (4)
EDSP 503	Field Work in Special Education (3) (Early Childhood Special Education: Center-based Program)
EDSP 515	Planning Programs for Infants and Young Children with Special Needs (4)
EDSP 516	Medical and Behavioral Characteristics of Young Infants with Special Needs (4)

Preschool Emphasis**Prerequisites:**

- Bachelor's degree in Child Development or related field.
- Multiple Subject or Special Education credential.
- EDSP 400.
- Minimum 2.75 undergraduate grade point average in last 90 quarter units attempted.

Required Courses (27 Units)

EDEL 461	Early Childhood Curriculum (4)
EDEL 462	Dynamics of Play (4)
EDSP 408	Linguistic and Cognitive Processes in Individuals with Exceptional Needs (4)
EDSP 416	Working with Families of Young Handicapped Children (4)
EDSP 503	Field Work in Special Education (3) (Preschool Setting)
EDSP 514	Assessment of Infants and Young Children with Special Needs (4)
EDSP 515	Planning Programs for Infants and Young Children with Special Needs (4)

Doctoral Program**Doctor of Philosophy Degree in Special Education**

A doctoral program in Special Education, offered jointly by the University of California, Los Angeles (UCLA) and California State University, Los Angeles (CSLA), combines the unique resources of the two institutions. The program is designed to prepare graduates for teacher education in special education or other leadership positions in the field. This program offers a focus on disability issues in special education, emphasizing teacher education, theory and pedagogy, and research. Graduates are prepared to assume university faculty positions in which they will conduct teacher education, research, and other scholarly pursuits related to special education and disabilities. This program offers a Ph.D. in special education, thus students are required to obtain both breadth and depth of knowledge in special education and may specialize in specific areas that include but are not limited to: early childhood education, learning disabilities, emotional disturbance, mental retardation, severe disabilities, physical and health impairment, gifted education, multicultural education, bilingual special education, visual impairment, and transition to adulthood.

The degree requires major work in special education, and breadth work in related areas as well as work in a cognate field outside of education. Advanced courses and research seminars supply technical backgrounds in the specialization in which students plan to do their dissertation. Practicum, field work, and/or internship assignments are planned on an individual basis.

Admission to the Program

To be considered for admission, applicants must meet the following requirements:

Completion of a Master's degree in Special Education or a related field.

Acceptable minimum score on such examinations as may be specified by the Division of Special Education joint doctoral program committee (currently a minimum of 1,000 combined verbal and quantitative scores on the Graduate Record Exam).

An upper division undergraduate grade point average of 3.0 and a minimum graduate grade point average of 3.5.

The potential to perform research as demonstrated in evidence submitted to the special education joint doctoral program committee.

At least three years' successful professional experience, such as teaching, with individuals with disabilities (if an exception is made at the time of admission, the requirement must be completed prior to advancement to candidacy).

Three letters of recommendation, two of which should be written by faculty from whom the student has taken graduate work.

Complete sufficient course work to merit recommendation for admission by at least two resident graduate faculty members and one professional field supervisor, or three resident faculty members from one or both campuses.

The program coordinator on the CSLA campus will assist in preparation of application materials. Applicants may be asked to participate in an oral interview as part of the screening process. Applicants will be considered for admission by a joint screening committee consisting of special education faculty from both CSLA and UCLA. Students are initially admitted to the CSLA campus. Upon recommendation of the CSLA special education joint doctoral program committee, students may make formal application to UCLA and be approved for admission to that campus to complete the program of study.

Planning the Program

Upon admission to the program, students meet with an assigned CSLA adviser to plan their program of studies at the CSLA campus. At the time of transfer to the UCLA campus, a UCLA adviser is assigned to complete the program plan with UCLA course work. Course work is taken at both campuses. Course requirements include the following areas: depth and breadth in core content, research methods, research practicum, and cognate, or outside field of study. Specific courses in each of the required areas are determined by the candidate and the faculty advisers within approved program guidelines. Students' individual programs are based on the students' backgrounds and are designed to assure their competencies in the above areas.

The program is planned to provide a comprehensive understanding of the entire field of special education as well as an emphasis area. The program is designed to develop competence in statistics and research; provide an understanding of research relating to individuals with disabilities, strengthen background through study in a cognate area; and provide electives to complete a balanced program of study. The program is not built around specific unit requirements, but will be designed to ensure the candidate's competencies in the above areas.

Residence Requirements

All doctoral candidates are required to engage in a minimum of one year of full-time residence on the UCLA campus. However, candidates are encouraged to engage in full-time residence throughout their entire doctoral program. The exact distribution of time on each campus will depend upon the individual program. Doctoral candidates must be enrolled in three of every four quarters unless on formal leave of absence.

Candidates are allowed a period of time not to exceed four years from the beginning of course work to advancement to candidacy, and four additional years from advancement to candidacy to completion of the dissertation.

Doctoral Written Qualifying Examination

When the candidate has completed the course work recommended by the resident advisers, application is made for the written qualifying examination. The examination is written and scored by faculty at both campuses and follows the guidelines set forth by the UCLA Graduate School of Education. Students who fail this examination will be given a second opportunity to take the examination at the discretion of the student's CSLA and UCLA advisers, and a third opportunity upon majority vote of faculty from both campuses. No fourth sitting for the examination is permitted.

Doctoral Oral Qualifying Examination

After the candidate has completed the written qualifying examinations successfully, a joint doctoral committee will be appointed by the deans of the graduate divisions of the two institutions. This committee will be composed of two approved faculty members from the UCLA Graduate School of Education, two from the Cal State L.A. Division of Special Education, and one from the student's cognate area at UCLA. Additional committee members may be appointed at the student's or adviser's request. This committee will conduct an

oral examination covering topics from both special education and the cognate discipline related to the candidate's research proposal, to determine the candidate's qualifications to conduct meaningful research in the field. This oral examination is open only to the committee and the student. Upon majority vote of the joint doctoral committee, the oral qualifying examination may be repeated once.

Advancement to Candidacy

Candidates who have passed both written and oral qualifying examinations file an application for advancement to candidacy at both campuses. Thereafter, enrollment is required each quarter in EDSP 699, or such course or courses as the student's committee chair may direct, until the dissertation is completed.

Dissertation

The dissertation, required of every candidate for the Ph.D. degree, embodies the results of the candidate's independent investigation. It must contribute to the body of knowledge in the field and draw upon interrelations between education and the cognate discipline. The dissertation must be approved by the candidate's assigned joint doctoral committee and, after approval, copies must be filed in the libraries of both institutions. An abstract must be submitted to University Microfilms for publication in Dissertation Abstracts. Candidates should check with the committee chairperson regarding the need for additional copies of the dissertation.

Final Oral Examination

Candidates must pass a final oral examination conducted by the assigned joint doctoral committee stressing the interrelation of the dissertation and existing knowledge in education and in the cognate field. The major emphasis of this examination is on defense of the dissertation. The final oral examination is open to faculty, students, and other interested researchers at the discretion of the dissertation chairperson and the student.

Advisement

A faculty member on each campus is designated as resident doctoral adviser for all students intending to apply for admission to the Joint Doctoral Program. As soon as the decision is made to seek admission, applicants should consult with the joint doctoral program coordinator at the CSLA campus regarding application deadlines and formal procedures required for consideration for admission to the program.

The addresses and telephone numbers for the resident doctoral advisers are as follows:

California State University, Los Angeles
Division of Special Education
5151 State University Drive
Los Angeles, California 90032-8144
King Hall C1064
(323) 343-4400

University of California, Los Angeles
Graduate School of Education
405 Hilgard Avenue
Los Angeles, California 90024
(323) 825-8343

List of Courses (EDSP) - Undergraduate Level

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDSP 403, 407, 489.

Upper Division Courses

400 Foundations of Special Education (4)

Implications of atypical development for learning and education of children/youth. Historical and current issues. Research, legislation, needs of the field. Needs of students with disabilities. Strategies for optimizing learning.

401 Assessment of Exceptional Individuals in Educational Settings (4)

Prerequisite or corequisite: EDSP 400. Principles, procedures, and use of educational assessment and evaluation techniques for special needs students in educational settings; emphasizes mastery of assessment practices for planning and evaluating the Individualized Educational Program (IEP).

402 Curriculum Modification and Instructional Strategies for Exceptional Individuals (4)

Prerequisite: EDSP 401. Development of instructional strategies appropriate for exceptional individuals; current methodology and techniques of curricular modification necessary to individualize instruction for handicapped.

403 Special Education Laboratory (1-5)

Prerequisite: EDSP 400. Practicum field experience with individuals with exceptional needs in designated areas of special education. Graded *CR/NC*.

404 Teacher Guidance for Exceptional Individuals (2)

Prerequisite: EDSP 400. Problems of personal, educational, and social adjustment affecting individuals with exceptional needs. Guidance techniques for teachers working with exceptional individuals and their families.

405 Career Preparation for the Handicapped (2)

Prerequisite: EDSP 404. Implications of handicapped conditions for career selection and preparation. Programs in schools and other agencies to develop career awareness, information, and skills.

406 Observation in Orientation and Mobility (1)

Prerequisite: Instructor consent. Opportunity for firsthand experience and observations in education and rehabilitation programs in orientation and mobility in general education and specialized settings. May be repeated to maximum of 2 units. Graded *CR/NC*.

407 Directed Teaching in Special Education (3-12)

Prerequisites: See *Directed Teaching* requirements; 12 units of directed teaching in an area of special education other than speech and hearing may be used to satisfy requirement for equivalent amount on teaching credential. Assignments in city and county schools under supervision and guidance of qualified teacher and University supervisor. Graded *CR/NC*.

408 Cognitive, Linguistic and Literacy Processes in Individuals with Special Needs (4)

Prerequisite: EDSP 400. Theories and sequences of cognitive, linguistic, and literacy development Impact of disabilities and culture; informal techniques of assessment of communication skills.

409 Assessment, Strategies, and Curricular Modification for Individuals with Exceptional Needs in Diverse Educational Settings (4)

Prerequisites: EDEL 400, 401 or EDSE 401, 421; EDSP 400. Principles, procedures and application of various formal and informal assessment techniques for individuals with exceptional needs in diverse educational settings. Organize, develop, adapt, implement, and evaluate instruction and curricula.

410 Education of Exceptional Individuals in Mainstream Settings (3)

Deviations from normal, sensory, motor, perceptual, and mental development. Implications of deficit areas for learning. Functional assessment of exceptional individuals. For students in Multiple and Single matter credential programs.

416 Working with Families of Young Handicapped Children (4)

Prerequisites: EDSP 400, course work in child development. Techniques for teachers and other professionals working with families of young handicapped children in infant and preschool programs.

420 Implications of Communication Handicaps (4)

Prerequisite: EDSP 400. Survey of educational, psychological, and vocational implications of communication handicaps; emphasis on impact of auditory impairment.

430 Sign Language (3)

Methods of manual communication and relationships to other forms of communication; use of nonoral communication in therapeutic and educational settings.

431A Laboratory: Sign Language, Beginning (1)

Intensive sign language practice in the habilitation of prelingually hearing impaired individuals.

431B Laboratory: Sign Language, Advanced (1)

Advanced practice in sign language for the habilitation of prelingually hearing impaired individuals.

440 The Gifted Individual I (4)

Characteristics, needs, and identification of gifted individuals, with emphasis on early nurture. Problems of personal, educational, and social development of gifted individuals; overview of current and innovative programs.

441 The Gifted Individual II (4)

Prerequisite: EDSP 440. Strategies for education of gifted individuals, prekindergarten through grade 12. Methods of assessment; program planning to meet individual needs; evaluation of development. Emphasis on developing higher cognitive skills, including techniques of inquiry, simulation, open structure, and problem solving.

450 Educational and Vocational Implications of Retardation (4)

Implications of retardation for education and for community and vocational adjustment; current programs, services, and legal aspects. Observation in schools, workshops, and hospitals required.

460 Implications of Physical and Health Impairments (4)

Prerequisite: EDSP 462. Impact of physical and health impairments on psychological and sociological interactions and outcomes; implications for lifespan development, career preparation, and independent living.

462 Survey of Physical and Health Impairments (4)

Prerequisite: EDSP 400. Survey of major physical and health impairments, including neuromotor impairments, degenerative diseases, orthopedic and musculoskeletal disorders, health impairments, and infectious diseases. Effects on development, treatment and educational implications.

463 Augmentative Communication and Adaptive Technology in Special Education (4)

Prerequisites: EDSP 400, 408. Assistive technology available to meet educational needs of individuals with severe disabilities. Emphasis on assessment, design, and implementation of augmentative and alternative communication technologies for persons with severe communication challenges.

464 Assessment and Curricular Adaptations for Individuals with Low Incidence Disabilities (4)

Prerequisite: EDSP 409. Assessment and curricular adaptations for individuals with low incidence disabilities. Modification of academic content areas, the arts, and functional curriculum. Emphasis on curricular adaptations, including low and high assistive technology.

465 Introduction to Vision (3)

Prerequisite or corequisite: EDSP 400 or instructor consent. Anatomy, physiology, and pathology of the eye; principles of optics, low vision devices; components of an eye exam and report; vision screening programs.

465L Functional Low Vision Assessment (1)

Prerequisite or concurrent enrollment: EDSP 465. Principles of functional low vision assessment including techniques for administering assessments to infants/toddlers, school-age children, and children with multiple disabilities. Practical applications and implications for educational programming.

466 Literary and Mathematical Braille (4)

Prerequisite or concurrent enrollment: EDSP 400. Fundamentals of specialized communication skills for individuals with visual impairment and blindness, including literary Grade 2 Braille, mathematical Braille, slate and stylus, and Braille reading.

469 Psychological, Sociological, and Vocational Implications of Visual Impairment and Blindness (4)

Psychosocial implications of visual impairment and blindness through the life span including family systems, cultural diversity, adjustment, and guidance. Vocational/transition issues in the blindness system and development of professional advocacy.

475 Orientation and Mobility for the Blind (6)

Prerequisite: Approval of instructor. Principles and techniques of orientation and mobility for individuals who are blind. Practical application of techniques during simulated blindfold experiences. Content seminars address foundations and methods of orientation and mobility.

476A Orientation and Mobility Instructional Seminar (5)

Prerequisites: C or better in EDSP 475, instructor consent. Seminar in methods of assessment, planning and instruction in orientation and mobility for diverse learners who are visually impaired; development of concepts and spatial awareness; development and utilization of appropriate instructional materials and resources. (Seminar 1 hour)

476B Clinical Practice in Orientation and Mobility (5)

Prerequisites: C or better in EDSP 475, instructor consent. Prerequisite or corequisite: EDSP 476A. Clinical practicum in methods of assessment, planning and instruction in orientation and mobility for diverse learners with visual impairments; development of concepts and spatial awareness; development/utilization of instructional materials and resources. (Laboratory 12 hours)

480 Assessment and Curriculum in Integrated School and Community Settings (4)

Prerequisites: EDSP 402, 403. Assessment and curricular strategies for students with severe disabilities in integrated school and community settings; working with school personnel, families, significant others, and the community.

481 Instructional Strategies for Students with Severe Disabilities (4)

Prerequisites: EDSP 402, 403. Methods of teaching students with severe disabilities and other exceptionalities in integrated school and community settings; strategies for infusing academic, communication, and motor skills into functional and age-appropriate curriculum.

489 Demonstration of Instructional Competencies (3–12)

Prerequisite: Approval of division chairperson or designee. Demonstration of competencies related to instructional skills specified for components leading to completion of approved credential, certificate, or degree program requirements. May be repeated for credit with division approval. Graded CR/NC.

490 Problems in Special Education (2–5)

Prerequisite: Instructor consent. Investigation and study of unique problems in special education. Specific subject announced in *Schedule of Classes*. May be repeated for credit as subject matter changes.

499 Undergraduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly; final report submitted. May be repeated for credit.

Graduate Level Courses (EDSP)

All 400-level courses may be applied toward master's degree requirements except the following, subject to limits established by the division and approval of the graduate adviser: EDSP 403, 407, 489.

Classified graduate standing is required for admission, except that postbaccalaureate students may enroll in 500-level courses that are required in a credential program.

500 Research Methods in Special Education (4)

Prerequisite: EDSP 400. Study of research relating to psychological and educational problems of exceptional children, introduction to methodological problems in developing, conducting, and reporting research in special education.

501 Problems and Practices in Special Education (4)

Prerequisite: EDSP 400. Problems of organization, administration, and supervision of special education programs; evaluation of recent proposed needed legislation; review of current literature for advanced students and administrators.

502 Educational Measurements in Special Education (4)

Prerequisites: EDFN 409, EDSP 400, basic courses in student's special field. Interpretation and use of test and other measurements for study of the exceptional child. May not be substituted for the credential requirement of administration of individual psychological tests.

503 Field Work in Special Education (3–6)

Prerequisite: Consent of division chair. Supervised field training in problems relating to instruction, supervision, administration, evaluation, and guidance of exceptional individuals. Special assignments in schools, diagnostic centers, rehabilitation centers or community agencies. May be repeated to maximum of 9 units.

504 Selected Studies in Special Education (3–5)

Prerequisite: EDSP 400. Intensive study of designated problems in special education. May be repeated for credit as subject matter changes.

505 Sexuality and Sex Education of Exceptional Individuals (4)

Investigation and comparison of sex behavior in normal and exceptional individuals including orthopedically, visually, hearing, and learning disabled; sexuality, social development and family-life education of the exceptional. Graded CR/NC.

506 Education and Psychology of Handicapped Adolescents and Young Adults (4)

Prerequisites: EDSP 400, PSY 412B. Current issues and problems in education and treatment of handicapped adolescents and young adults emphasizing etiology, services, relevant education approaches, and interpersonal relationships.

508 Computer Applications in Special Education (4)

Prerequisites: EDIT 452, EDSP 403. Microcomputer technology compatible with curriculum and data management strategies for exceptional individuals; hardware and software, modifications; examination of relevant research.

510 Resource Specialist in Special Education (2)

Prerequisites: Graduate standing *and/or* current enrollment in special education credential or school psychology program. Problems of serving individuals with exceptional needs in regular school program; advanced skills that enhance remedial process in special education; consultation, coordination of services for exceptional pupils.

511 Seminar: Issues and Strategies for Multicultural Special Education Students (4)

Prerequisites: EDSP 402; 408 or COMD 455. Special education for multicultural/bilingual exceptional students, issues in nondiscriminatory assessment, instructional strategies for multicultural/bilingual special education students.

512 Building Partnerships in Special Education (2)

Prerequisite: EDSP 400. Theory and methods of communication and collaboration with students, families, school and community personnel. Role of culture in communication, collaboration. Issues and concerns related to building partnerships.

513 Student Behavior and Social Interaction Skills: Support and Intervention for Individuals with Exceptional Needs (4)

Prerequisites: EDSP 400, 409. Principles and application of behavioral support and intervention for successful classroom learning and social interaction skills for individuals with exceptional needs. Facilitation of appropriate social behavior in diverse settings.

514 Assessment of Infants and Young Children with Special Needs (4)

Prerequisites: EDSP 408, 416. Assessment and educational planning for infants and young children at risk and those with disabilities, including standardized, team-based, authentic, and play-based approaches.

515 Planning Programs for Exceptional Infants and Young Children (4)

Prerequisites: EDSP 415, 416. A study of research and issues related to assessment, planning, and implementation (intervention) of services for at-risk and exceptional infants and young children.

516 Medical and Behavioral Characteristics of Young Infants with Special Needs (4)

Characteristics of the high-risk infant in the Neonatal Intensive Care Unit and after hospital discharge; characteristics of infants with identified disabilities; assessment and intervention strategies.

517 Advanced Issues in Early Childhood Special Education (4)

Prerequisites: EDSP 514, 515, 516. Current research and practices related to program development, intervention methods and parent-professional relationships in early childhood special education.

540 Affective Development of Exceptional Individuals (4)

Prerequisite: EDSP 400. Relationship of affective factors, e.g., receiving, responding, valuing, self-concept of learner and teacher, to cognitive growth of exceptional individual. Emphasis on affective area applicable to all exceptionalities, as approached through current research related to exceptional individuals.

541 Advanced Studies in Gifted Education (4)

Prerequisite: EDSP 441. Exploration of issues, research trends, and current practices for gifted individuals in educational programs.

550 Teaching Students with Mild to Severe Disabilities: Academic Skills (4)

Prerequisites: EDSP 409. Teaching students with mild to severe disabilities in elementary and secondary settings. Focus on language arts, literacy, communication, mathematics, critical thinking and social competence.

551 Teaching Students with Moderate to Severe Disabilities (4)

Prerequisite: EDSP 550. Methods for teaching students personal care, mobility, functional academics and transition skills.

552 Teaching Students with Reading and Writing Disabilities I (4units)

Prerequisite: EDSP 550. Methods for assessment and instruction in literacy for students with reading and writing disabilities. Includes development of basic reading, writing, language skills in grades K-12 and across service delivery settings.

553 Teaching Students with Reading and Writing Disabilities II (4 units)

Prerequisite: EDSP 552. Methods related to the education of students with mild/moderate disabilities including optimizing access to core curriculum and developing advanced literacy skills.

554 Educating Individuals with Serious Emotional Disturbances (4)

Prerequisites: EDSP 550, instructor consent. Educational management and instruction of individuals with serious emotional disturbances; emphasis on identification, assessment, educational planning, and delivery of educational services, in public and private educational settings, to individuals with serious emotional disturbances.

555 Advanced Issues in Mild/Moderate Disabilities (4)

Prerequisite: EDSP 551. Identification and analysis of current issues relating to education of individuals with mild to moderate disabilities including specific learning disabilities, mental retardation, and behavior disorders.

556 Research in Mild/Moderate Disabilities (4)

Prerequisite: EDSP 555. Intensive investigation of several research bases concerning topics relevant to the education of mild to moderate disabilities.

560 Seminar: Education of Individuals with Physical Disabilities (4)

Prerequisite: EDSP 462. Identification and analysis of problems and current issues relating to the education of individuals with physical disabilities and those with multiple disabilities; review of research on specific disabilities.

565 Advanced Problems in Education of Visually Handicapped (4)

Prerequisite: Completion of requirements for credential for teaching visually handicapped. (May be taken concurrently with EDSP 407.) Identification and analysis of problems and current issues relating to education of visually handicapped; review of recent research specifically related to visual impairment and its application to educational practice.

567 Academic Skills for Individuals with Visual Impairment and Blindness (4)

Prerequisites or concurrent enrollment: EDSP 409, 466. Assessments, methods, and strategies related to the teaching of academic skills to individuals with visual impairment and blindness. Specialized curriculum, adaptive materials, aids, and media. Braille reading and writing proficiency.

568 Functional Skills for Exceptional Individuals (4)

Prerequisites or corequisite: EDSP 409, 567 or approval of instructor. Assessment, intervention, and issues related to individuals with visual impairment and additional disabilities including orientation and mobility basics.

569 Specialized Technology for Individuals with Visual Impairments (4 units)

Prerequisite: EDSP 508 or equivalent. Hands-on instructional training and applied practicum in adaptive technology specific to individuals with visual impairments, including electronic notetakers, tactile graphics, computer-generated Braille translation, and computer screen programs.

570AB Low Incidence Early Childhood Special Education (2-2 units)

Pre- or co-requisite: EDSP 408 or course equivalent. Early intervention procedures and strategies for working with infants, toddlers, and young children with low incidence disabilities (deaf and hard-of-hearing, visual impairment, and physical and health impairments) and multiple disabilities.

575A Advanced Seminar in Orientation and Mobility (1)

Prerequisite: C or better in EDSP 475, instructor consent. Advanced seminar in orientation and mobility issues, systems and processes. (Seminar 1 hour)

575B Advanced Clinical Practice in Orientation and Mobility (4)

Prerequisite: EDSP 476A&B, instructor consent. Prerequisite or corequisite: EDSP 575A. Advanced clinical training in orientation and mobility processes and application of methods, materials, and individualized instructional units in meeting the needs of individuals who are blind and visually impaired. (Laboratory 12 hours)

576A Orientation and Mobility: Seminar in Multiple Disabilities (2)

Prerequisites: EDSP 476A&B, instructor consent. Seminar in strategies for teaching orientation and mobility to visually impaired individuals with multiple disabilities. Seminar emphasizes the modification of typical instructional strategies and techniques, and use of adaptive devices. (Seminar 2 hours)

576B Clinical Practice in Orientation and Mobility: Emphasis Multiple Disabilities (2)

Prerequisites: EDSP 476 A&B, instructor consent. Prerequisite or corequisite: EDSP 576A. Clinical practice in teaching orientation and mobility to visually impaired individuals with multiple disabilities, emphasizing modification of typical instructional strategies and techniques, and use of adaptive devices. Field practicum 6 hours. (Laboratory 4-6 hours)

580 Biomedical Aspects of Mental Retardation (4)

Prerequisite: PSY 406. Etiological and developmental aspects of mental retardation from biological and medical points of view.

581 Transition Planning for Secondary Students with Disabilities (4)

Principles and issues of transition planning for secondary students with disabilities in postsecondary education, independent living, leisure and recreation, and community living; needs assessment in curriculum; instructional strategies; collaboration among family and professionals.

582 Advanced Issues in the Education of Students with Moderate to Severe Disabilities (4)

Prerequisite: EDSP 551. Issues and research relevant to current practices in education of students with moderate to severe disabilities.

583 Advanced Issues and Research in Inclusive Education (4)

Prerequisites: EDSP 502 and 550. Issues and research relevant to current practices in inclusive educational practices.

584 Advanced Issues and Research in Transition (4)

Prerequisites: EDSP 400. Issues and research relevant to current practices in transition services of individuals with disabilities.

585 Organization and Administration of Special Education Programs (4)

Prerequisite: Consent of divisions of Special Education and Administration and Counseling. Planning and financing special education programs. Organization of local, state, federal, and private agencies related to education of exceptional children.

586 Educating Students with Autism (4)

Prerequisite: EDSP 551. Overview of characteristics of autism. Review of assessment strategies, current interventions for behavior, communication, and social deficits. Classroom arrangement and organizational strategies. Interdisciplinary approaches. Augmentative communication technique

587 Teaching Functional Communication (4)

Prerequisite: EDSP 586. Methods for assessing communication needs of students with severe cognitive disabilities. Approaches for teaching communication skills using verbal and augmentative strategies.

595A Seminar: Development of Induction Plan (2)

Prerequisite: Final Directed Teaching [EDSP 407/489 (9 units)]. This course should be taken immediately following EDSP 407/EDSP 489 (9 units). Development of individualized induction plan by candidate, university supervisor, and district support provider. Induction plan is designed for the support and professional development of the beginning special educator. CR/NC

595B Seminar: Assessment of Induction Plan (2)

Prerequisite: EDSP 595A, completion of individualized induction plan. Final assessment of Induction Plan and Level II competencies conducted by candidate, university supervisor, and district support provider. Satisfactory completion leads to Level II Specialist Credential in Special Education. Graded CR/NC.

597 Graduate Research (1–4)

Prerequisites: EDFN 500 or 509, instructor consent to act as sponsor, division approval of project prior to registration. Independent research under guidance of faculty. May be repeated for credit. Graded CR/NC.

598 Graduate Directed Study (1–4)

Prerequisites: A B (3.0) grade point average in all graduate work in education, consent of division chair and instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

599A Thesis or Project Planning (3)

Prerequisites: EDFN 452 and 500 or EDSP 500, advancement to candidacy, written approval of thesis chair. Prior to completion, students will have completed draft of thesis or project proposal, selected a thesis committee, and submitted a draft of thesis or project proposal to thesis committee. Graded CR/NC.

599B Thesis or Project (2)

Prerequisites: EDSP 599A, written approval of thesis committee chair. Prior to completion, students will have submitted a final draft of thesis or project proposal to thesis committee. Graded CR/NC.

599C Thesis or Project (2)

Prerequisites: EDSP 599, written approval of thesis committee chair. Completion of thesis or project under direct supervision of thesis committee. Graded CR/NC.

Doctoral Courses in Higher Education (EDHI)

600 Seminar: Research in Special Education (4)

Prerequisite: Post-master's degree standing or permission of instructor, adviser, and division chair. Research in special education; development of skills for analysis and synthesis of research in special education, critical analysis of research in special education, and development of professional writing style.

602 Practicum: Program Development and Evaluation (1–3)

Prerequisite: Post-master's degree standing. Development of proposals and grant applications for submission to federal, state, and private agencies for research, training, and public school program funding. May be repeated for credit.

604 Legal and Policy Issues in Special Education (4)

Prerequisite: Post-master's degree standing or permission of instructor, adviser, and division chair. Current legal, policy, and leadership issues at an advanced level in special education. Review of important laws, court cases, policy documents, and legal procedures.

610 Research, Issues, and Practices in College and University Teaching (4)

Prerequisite: Post-master's degree standing. Current research, issues, and practices in college and university teaching; instructional planning and preparation; student and program evaluation; noninstructional responsibilities of faculty.

611 Seminar: Supervision in College and University Teaching (4)

Prerequisite: Post-master's degree standing. Review of research and practices in higher education supervision of students; discussion of college/university student field and laboratory teaching assignments and evaluation.

612 Program Proposal, Development, and Evaluation in Higher Education (4)

Prerequisite: Post-master's degree standing. Procedures for needs assessment, development, evaluation of special programs/projects; development of proposals and grant applications.

615 Research Seminar in Early Childhood Special Education (4)

Prerequisite: Post-master's degree standing. Research seminar about early childhood special education issues including emphasis on current research, theory and practice; research and evaluation of program models; intervention methods.

620 Seminar: Low Incidence Disabilities (4)

Prerequisite: Permission of instructor, adviser, and division chair. Theories and research related to infants, toddlers, children and youth with low incidence disabilities including deafness, visual impairments, and severe physical impairments.

640 Research in Education of Gifted (4)

Prerequisites: EDSP 400, 440. Intensive study of current research about gifted, talented, and creative; factors in intellectual development; experimental school programs.

650 Research Seminar: Adolescents and Adults with Disabilities (4)

Prerequisite: Post-master's degree standing or permission of instructor, adviser, and division chair. Adolescents and adults with disabilities; review of major transition models, methods, materials, and resources; need for transition services; conceptualization and development of transition model/programs.

660 Seminar: Learning Disabilities and Behavior Disorders (4)

Prerequisites: Post-master's degree standing or permission of instructor, adviser, and division chair. Research, theory, and policy related to educating individuals with learning disabilities or behavior disorders; issue related to identification, placement, and intervention.

680 Seminar: Moderate to Severe Disabilities (4)

Prerequisite: Post-master's degree standing or permission of instructor, adviser and division chair. Medical research, public policy, social adjustment and integration research, program development, evaluation, design, and other current issues.

698 Graduate Directed Study (1–8)

Prerequisite: Consent of an instructor to act as sponsor. Independent directed study of advanced topics in field; regular conferences with sponsor. May be repeated for credit.

699 Doctoral Dissertation (4–8)

Prerequisites: Advancement to candidacy for Ph.D. degree, consent of an instructor to act as sponsor, division approval of topic prior to registration. Continuous enrollment required while student is working on dissertation.

Department of

Technology

School of Engineering and Technology

DEPARTMENT OFFICE

Engineering and Technology A341

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The Department of Technology offers undergraduate programs in several areas designed to prepare students for careers in industrial technology and technology education. Specific programs are offered in production technology, printing management, aviation administration, fire protection administration, and technology education. These programs allow students to develop expertise in specific technical areas including automated manufacturing and robotics, computer aided design (CAD), computer-aided manufacturing (CAM), electronics, design/drafting, graphic communications/printing management, manufacturing, and power, energy and transportation. Graduates of these programs are employed in a wide range of careers including managers, management representatives, trainers, technical support specialists, and technology educators. The department also offers several upper division certificate programs to provide further technical depth.

The Faculty**Professors:** Gregory S. Graham, Ethan B. Lipton, Don M. Maurizio (Chair), Virgil A. Seaman, Le D. Tang**Associate Professors:** Benjamin L. Lee, A. Keith Mew, Ray O. Shackelford**Assistant Professor:** James E. Ettaro**Emeriti:** Cortland C. Doan, Raymond E. Fausel, Kenneth F. Hird, Pamela D. Jablonsky, John LaMonica, William A. Mays, Kenneth Phillips, Kenneth N. Sweetnam, Norwood Teague

Undergraduate Programs

Bachelor of Arts Degree in Industrial Arts

A total of 186 units is required for the Bachelor of Arts degree in Industrial Arts. The program is designed primarily for students who plan to become Technology Education teachers. Refer to the **Charter School of Education** section of the **Undergraduate Studies: General Information** chapter of this catalog for regulations governing all teaching credential programs.

Requirements for the Major (84 units)

Required for the major are 84 units of professional and technical courses in technology.

The professional component requires 27 units and the technical program requires 57 units, distributed as follows: foundation courses, 24 units; area of concentration, 21–27 units; and additional specialization, 6–12 units.

Professional Courses (27 units)**Required Courses**

TECH 101	Industrial Safety for Industrial Education (3)
TECH 200	History of Technology (3)
TECH 300AB	Foundations of Industrial Education (2, 2)
TECH 380	Industrial Graphic Communication Technology (3)
TECH 381	Materials, Process, and Fabrication Technology (3)
TECH 382	Power Technology (3)
TECH 400	Written Communications Skills for Industrial Technology (4)
TECH 481	Practicum in Industrial Technology (4)

Technical Courses (57 units)

A minimum of 57 units is required in technical courses, chosen from the three areas below.

Foundation Program (24 units)**Required Courses**

ART 287	Introduction to Photography (3)
TECH 100	Introduction to Automotive Mechanisms (3)
TECH 110	Introduction to Drafting (3)
TECH 120	DC Electronics (3)
TECH 130	Introduction to Graphic Arts (3)
TECH 144	Introduction to Industrial Design (3)
TECH 160	Introduction to Metalworking (3)
TECH 170	Introduction to Wood Technology (3)

Area of Concentration (21–27 units)

Select a total of 21–27 units of intermediate and advanced courses and laboratory work from one of the following areas:

- Power, Energy and Transportation
- Design
- Electronics Technology
- Graphic Communications
- Manufacturing Technology
- Photography
- Construction Technology

When needed, select additional related courses with adviser approval. As a rule, one or two of these courses will be lower division (3 or 6 units) and the remainder upper division (15–24 units).

Additional Specialization (6–12 units)

The remaining units needed to satisfy the technical requirement are used to strengthen the area of concentration

or to develop a second area of concentration. Add the following courses to the designated areas of specialization.

Power, Energy and Transportation	
TECH 361	Welding Technology (3)
TECH 463	Metal Machining I (3) Design
TECH 271	Wood Construction Technology (3)
TECH 464	Metal Machining II (3) Electronics Technology
TECH 415	Electromechanical Drafting and Design (3) Manufacturing Technology
TECH 411	Tool Design (3) Photography
TECH 312	Technical Illustration (3)
TECH 431	Lithography I (3) Construction Technology
TECH 311	Architectural Drafting (3)

Bachelor of Science Degree in Fire Protection Administration and Technology

The Bachelor of Science degree in Fire Protection Administration and Technology was designed to meet the needs of various fire services for educational experiences that provide both technical and administrative skills. The curriculum was developed through close consultation with representatives of all levels of the fire services from local groups to state committees and boards.

Required for the degree are 186 quarter units, including applicable lower division preparation at a community college. The major requires a total of 100–108 quarter units.

Required Community College Preparation

A minimum of 15 semester units (23 quarter units) of community college courses is required, as follows (semester units shown):

Building Construction for Fire Protection (3)
Fire Company Organization and Management (3)
Fire Behavior and Control (3)
Fire Protection Equipment and Systems (3)
Fundamentals of Fire Prevention (3)

A maximum of 6 semester units (9 quarter units) of community college coursework may be used as lower division electives. Select from the following (semester units shown):

Fire Apparatus and Equipment (3)
Fire Hydraulics (3)
Fire Investigation I (3)
Fire Service Communications Systems (3)
Fire Service Records and Reports (3)
Hazardous Materials I and II (3 each)
Related Codes and Ordinances (3)
Rescue Practices (3)
Wildland Fire Control (3)

Requirements for the major (100-108 quarter units)

A total of 15–21 semester units (22–32 quarter units) of community college courses may be included in the major program.

The remainder of the major is primarily upper division work, with 68–86 quarter units required beyond the community college preparation. Of these units, a maximum of 12 may be taken in lower division courses.

Required Courses (52 units)

MGMT 301	Business Communications (4)
POLS 403	State and Local Government (4)
POLS/SOC 415	Political Sociology (4)
POLS 460	Foundations of Public Administration (4)
POLS 463	Public Personnel Administration (4)
POLS 466	Public Financial Administration (4)
TECH 350	Fire Protection and the Community (4)
TECH 351AB	Fire Defense Planning (4, 4)
TECH 352AB	Fire Protection Aspects of Building Design (4, 4)
TECH 353	Fire Disaster Administration (4)
TECH 452	Fire Prevention Administration (4)

Electives (16–34 units)

Select from following with adviser approval and attention to prerequisites.

Select 8–10 units from following:

ECON/ENGR 300
POLS 281 or SOC 210AB
POLS 461, 470, 472, 473, 496

Select 8 units from following:

POLS 404
SOC 201, 202, 420
TECH 355

Select 0–16 units from following:

ENGR 352
TECH 451, 453AB

Bachelor of Science Degree in Industrial Technology

The Bachelor of Science degree in Industrial Technology is available with a choice among three options: Aviation Administration, Printing Management, and Production Technology. The total unit requirements for the major and for the degree vary with the individual options, as indicated below.

Aviation Administration Option

The Aviation Administration option, which provides appropriate training for middle management positions in aviation, was developed in response to needs identified by airlines, the aviation industry, and community colleges with two-year aviation programs.

Requirements for the Major (104 units)

The Bachelor of Science degree in Industrial Technology with the Aviation Administration option requires a total of 186 units. The major requires 104 units, including 21 semester units (32 quarter units) of community college work for students who have completed a two-year community college program in flight attendant training, maintenance, air transportation, or a similar aviation-oriented program.

The lower division program is completed at the community college or other four-year institutions. Students who have not completed lower division general education requirements at the time of entrance to Cal State L.A. must fulfill these remaining requirements in addition to upper division general education and major requirements. Transfer students must also complete prerequisites to required upper division courses in accounting, economics, finance, and marketing.

Lower Division Required Courses (32 units)

Must be completed at a community college as indicated above.

Upper Division Required Courses (8 units)

TECH 400 Written Communication Skills for Industrial Technology (4)
TECH 447 Senior Seminar: Aviation Problems (4)

Elective Courses (32 units)

Select 32 units from the following:

TECH 340, 341, 342, 343, 344, 345, 346, 440, 441, 442, 443, 444, 445

Required in Related Fields (12 units)

ACCT 300 Managerial Accounting (4)
FIN 305 Commercial Law (4)
MKT 304 Principles of Marketing (4)

Electives in Related Fields (20 units)

Required (4 units)

CIS 294 Business Computer Systems (4)

Select one from following (4 units):

ECON 303, 310, 402

Select two from following (8 units):

MKT 350, 351, 450, 451

Select one from following (4 units):

MKT 340, 342, 346, 450, 451

Printing Management Option

The option in printing management has been designed to give students extensive training in the graphic arts industry as well as a grasp of the principles and techniques of business management. The curriculum has been developed through close consultation with the graphic arts industry.

Requirements for the Major (91–94 units)

The Bachelor of Science degree in Industrial Technology with the printing management option requires a total of 192 units. Required for the major are 91–94 units, of which 43–46 are in graphic arts and 48 are courses from the School of Business and Economics.

The lower division program is concerned primarily with acquisition of skills and techniques of the printing industry; the upper division portion is concerned primarily with business management.

Students who have not had work experience with a printing firm will be advised to complete at least two units of UNIV (TECH) 398 (Cooperative Education).

Lower Division Required Courses (26 units)

TECH 130 Introduction to Graphic Arts (3)
TECH 231 Graphic Arts Paste-up (3)
ACCT 200AB Principles of Accounting (4, 4)
ECON 201, 202 Principles of Economics I, II (4, 4)
FIN 205 Foundations of Business Law (4)

Upper Division Required Courses (65 units)

TECH 331 Typography I (3)
TECH 332 Typography II (3)
TECH 333 Presswork Procedures (3)
TECH 400 Written Communication Skills for Industrial Technology (4)
TECH 431 Lithography I (3)
TECH 432AB Typographical Layout and Design I, II (4-5)
TECH 433 Printing Estimating (5)
TECH 434 Printing Plant Management (4)

Upper Division Required Courses (cont'd)

TECH 435 Lithography II (3)
ACCT 300 Managerial Accounting (4)
ECON 303 Money, Banking, and the Economy (4)
ECON 310 Economics of the Business Firm (4) or
ECON 402 Labor Economics (4)
FIN 303 Business Finance (4) or
MGMT 306 Production and Operations Management (4)
FIN 305 Commercial Law (4)
FIN 330 Credits and Collections (4) or
MKT 304 Principles of Marketing (4) or
MKT 341 Salesmanship (4)
OSBE 313 Office Organization and Management (4) or
MGMT 460 Case Studies in Production and Operations Management (4) or
MGMT 468 Small Business Management (4)

Elective (0–3 units)

TECH 398 Cooperative Education (1-3)

Production Technology Option

The Production Technology option was created to provide technical management personnel for industry. The curriculum combines design, manufacturing, and service courses with leadership and business courses. This program was developed in close cooperation with the various local industries that employ large numbers of these professionals.

Requirements for the Major (107-109 units)

The Bachelor of Science degree in Industrial Technology with the Production Technology option requires a total of 192 units, including 107-109 units in the major: 70–74 in technical courses and 33-40 in related courses in mathematics, natural sciences, and the School of Business and Economics.

Required Prerequisite Courses (8 units)

MATH 102 College Algebra (4)
PHYS 156 Physics for the 21st Century (4)

These required courses or their equivalents must be taken as part of the General Education Program and are not counted in the units to take for the major.

Required Professional Core (30 units)

TECH 101 Industrial Safety for Industrial Education (3)
TECH 200 History of Technology (3)
TECH 291 Computers in Technology (3)
TECH 380 Industrial Graphic Communication Technology (3)
TECH 381 Materials, Process, and Fabrication Technology (3)
TECH 382 Power Technology (3)
TECH 400 Written Communication Skills for Industrial Technology (4)
TECH 481 Practicum in Industrial Technology (4)
TECH 489 Industrial Training Methods (4)

Other Required Courses (23-25 Units)

CS 190 BASIC Programming (2)
(or any programming language course of 2–4 units)
CHEM 151 Fundamentals of Chemistry I (5)

Other Required Courses (cont'd)

TECH 414 Robotics in Industry (2)
TECH 482 Metrics for Industry (3)
TECH 484 Automated Manufacturing Systems (4)
TECH 488 Fluid Power (3)
TECH 398 Cooperative Education (4)

Required Technical Core (12 units)

Select 12 units from following:

TECH 100	Introduction to Automotive Mechanisms (3)
TECH 110	Introduction to Drafting (3)
TECH 120	DC Electronics (3)
TECH 130	Introduction to Graphic Arts (3)
TECH 144	Introduction to Industrial Design (3)
TECH 160	Introduction to Metalworking (3)
TECH 170	Introduction to Wood Technology (3)
ART 287	Introduction to Photography (3)

Advanced Technology Courses (12-16 Units)

Select 12–16 units with adviser's approval from following with attention to prerequisites: *

TECH 301	Fuel and Ignition Systems (3)
TECH 403	Chassis and Suspension Systems (3)
TECH 405	Engine Design (3)
TECH 411	Tool Design (3)
TECH 412	Manufacturing and Construction Drafting (3)
TECH 415	Electromechanical Drafting and Design (3)
TECH 321	Solid State Electronics (3)
TECH 424	Industrial Controls (3)
TECH 425	Programmable Controls (3)
TECH 431	Lithography I (3)
TECH 434	Printing Plant Management (4)
TECH 435	Lithography II (3)
TECH 461	Industrial Casting (3)
TECH 463	Metal Machining (3)
TECH 465	Industrial Machining Processes (3)
TECH 372	Wood Finishing and Preservation (3)
TECH 472	Wood Manufacturing Technology I (3)
TECH 473	Wood Manufacturing Technology II (3)
ART 387	Color Photography (3)
ART 483	Advertising and Photography (3)
ART 487	Functional Photography (3)

*If 12 units are taken in this section, then must take 8 units from the Management Electives section. If 16 units are taken, then only 4 units are needed from the Management Electives section. Total of both sections to equal a minimum of 20 units.

Required Management Courses (22 Units)

ACCT 202	Survey of Accounting (4)
ECON 209	Applied Business and Economic Statistics I (3)
ECON 309	Applied Business and Economic Statistics II (3)
MATH 242	Mathematics for Business and Economics Majors (4)
MGMT 306	Production and Operations Management (4)
MGMT 467	Quality Control (4)

Management Electives (4-8 Units)

Select 4 or 8 units from following with attention to prerequisites:*

ECON/ENGR 300	Economics for Engineers (4)
MGMT 460	Case Studies in Production and Operations Management (4)
MGMT 462	Comparative Management (4)
MGMT 463	Motion and Time Study (4)
MGMT 464	Production and Material Control (4)
MGMT 473	Personnel Management (4)
PSY 442	Industrial and Organizational Psychology (4)

*If 4 units are taken in this section, then must take 16 units from Advanced Technology section. If 8 units are taken, then only 12 units are needed from the Advanced Technology section. Total of both sections to equal a minimum of 20 units.

Bachelor of Vocational Education Degree

The Bachelor of Vocational Education degree in Vocational Arts is offered for vocational teachers recommended by the California State Board of Examiners for Vocational Teachers. Vocational teachers interested in details regarding this program should see the BVE degree adviser in the Department of Technology.

Students on time schedules that require the completion of 500-level courses before completion of the BVE degree may petition to enroll in the following graduate level secondary education courses and apply them toward the degree:

EDAC 581	The Community College (3)
EDAC 582	Instruction in Community College (4)
EDAC 589	Directed Teaching in Community College (6)

The procedure to determine eligibility for enrolling in the above courses is as follows:

1. Students must present evidence of employment as an instructor in a community college. Verification may be presented in the form of a letter from the community college dean of instruction.

2. As evidence of the necessity to complete coursework related to teaching at the community college level, students must submit the evaluation sent to them by the Credentials Section of the Chancellor's Office of the California Community Colleges.

Evidence of employment and certification of 500-level course requirements described above must be submitted to the Cal State L.A. BVE degree adviser who will then certify to the registrar the student's eligibility to enroll in the 500-level courses for baccalaureate credit.

Requirements for the Major (91–100 units)

A total of 186 units is required for the Bachelor of Vocational Education degree, of which 91–100 units are taken in the following areas:

The Vocational Teacher Education program has a requirement of 33–42 units. Candidates should contact a university that offers the required teacher education courses in vocational education.

The major in Vocational Education has a requirement of 58 units. Credit awarded by the state Board of Examiners for Vocational Teachers fulfills a portion of this major. Applicants for credit should contact the BVE adviser.

Minor in Industrial Studies

A minimum of 36 units is required for a minor in Industrial Studies. Included in a typical program for the minor are 3–9 units in lower division courses. However, the number of units may vary according to the selection of an area of concentration and the selection of electives.

Requirements for the Minor (36 units)**Area of Concentration (24 units)**

At least 24 units are selected as a sequence in one of the eight areas of concentration listed for the Industrial Arts major. The normal pattern for an area of concentration consists of the introductory course and seven additional courses in the same area of industrial studies. When needed, select related courses in other areas with approval of adviser.

Required Course (4 units)

TECH 300AB Foundations of Industrial Education (2, 2)

Electives (8 units)

Select additional technology courses, with prior approval of adviser. If a basic college course in drafting has not been taken, TECH 110 is required for 3 of the 8 units.

Certificate Program in Electronics Technology

The Department of Technology offers a credit certificate program in Electronics Technology. This program is designed to prepare individuals for technical careers in electronics manufacturing, electronics field servicing, and electronics design-assisted environments. Possible job titles include electronics technician, electronics technologist, product testing specialist, field service representative, electronics control specialist, electronics design technician, product design specialist, and technical support specialist. The program emphasizes application-oriented knowledge and hands-on experiences in electronics. Every course has a lab component that provides opportunities for knowledge and skills integration.

The program contains a total of 30 units: 15 units of required courses and 15 units of electives. Courses taken to meet requirements of this program may also be applied toward the majors in Industrial Arts and Industrial Technology. Refer to the *Undergraduate Study: General Information* chapter of this catalog for general regulations governing all certificate programs.

Prerequisite (3 units)

TECH 321 Solid State Electronics (3)

Requirements for the Certificate (30 units)**Required Courses (15 units):**

TECH 323 Industrial Electronics (3)
TECH 324 Linear Electronics (3)
TECH 325 Industrial Controls (3)
TECH 326 Digital Electronics (3)
TECH 327 Microprocessors (3)

Electives (select 15 units from the following)

TECH 421, 422, 425, 426, 427, 428, 490E

Certificate Program in Fire Protection Risk Analysis and Reduction

The Department of Technology offers a credit certificate program in Fire Protection Risk Analysis and Reduction. This program is designed to offer students and individuals in the insurance industry or in private sector fire protection positions a series of professionally related courses in fire protection and fire safety. The courses complement each other and, as a whole, prepare individuals to serve as fire protection and safety specialists, inspectors, evaluators, and managers.

The program contains a total of 32 units of upper division course work. Courses taken to meet requirements of this program may also be applied toward the major in Fire Protection Administration and Technology. Refer to the Undergraduate Study chapter of this catalog for general regulations governing all certificate programs.

An associate level degree (A.A. or A.S.), or its equivalent, in related subjects, or employment in a fire protection-related position is prerequisite to enrollment in the program.

Requirements for the Certificate (32 units)**Required Courses (32 units)**

TECH 352AB Fire Protection Aspects of Building Design (4,4)
TECH 451 Fire Prevention and Building Codes:
Interpretation and Enforcement (4)
TECH 452 Fire Prevention Administration (4)
TECH 453AB Fire Protection Systems Design (4, 4)
TECH 455AB Fire Protection of Structural Members and
Building Components (4, 4)

A fire protection administration program adviser may approve appropriate substitute courses to suit individual student needs.

Certificate Program in Fire Service Administration

The Departments of Technology and Political Science offer a credit certificate program in Fire Service Administration. This program is designed to offer fire department personnel who hold an associate degree an opportunity to continue their education. Course work covers effective functioning in modern fire departments: planning, prevention and disaster administration, public administration, and personnel and budgeting administration.

The program contains a total of 32 units of upper division course work: 28 units of required courses and 4 units of electives. Courses taken to meet requirements of this program may also be applied toward the major in Fire Protection Administration and Technology. Refer to the Undergraduate Study chapter of this catalog for general regulations governing all certificate programs.

An associate degree (A.A. or A.S.), or its equivalent in a related subject, or employment in a fire protection-related position is prerequisite to enrollment in the program.

Requirements for the Certificate (32 units)**Required Courses (28 units)**

TECH 351AB Fire Defense Planning (4, 4)
TECH 353 Fire Disaster Administration (4)
TECH 452 Fire Prevention Administration (4)
POLS 460 Foundations of Public Administration (4, 4)
POLS 463 Public Personnel Administration (4)
POLS 466 Public Financial Administration (4)

Electives (select 4 units from the following)

POLS 403, 404, 430, 461, 464, 470, 472, 479

A fire protection administration program adviser may approve appropriate substitute courses to suit individual student needs.

Credential Programs

Single Subject Credential

Both the Bachelor of Arts degree in Industrial Arts and the Bachelor of Science degree in Industrial Technology with the Production Technology option - have been approved by the California Commission on Teacher Credentialing as subject matter programs designed to qualify students for the Single Subject Credential in Industrial and Technology Education. Students should consult advisers in both the department and the Charter School of Education.

Designated Subjects Credential (Vocational)

This teaching credential authorizes the holder to teach vocational classes in the subject(s) listed on the credential at preschool, grades 1–12, and adult levels. This credential requires qualifying industrial and/or professional work experience in the subject(s) listed on it. The initial preliminary

part-time or full-time credential shall be issued for five years, but shall authorize service for no more than two years from the date of issuance of the credential unless the holder presents verification of having met all Level 1 requirements. Interested applicants should contact the Department of Technology Designated Subjects Credential adviser.

The Department of Technology offers a Master of Arts degree in Industrial and Technical Studies to further develop leadership skills for business, industry, and teaching, and to meet credential requirements. Graduate degree programs are described below.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Industrial and Technical Studies

This program is designed to increase the effectiveness of industry professionals and industrial arts teachers in their professional service area by allowing specialization in two of three areas of interest, as follows:

Teaching emphasizes advanced subject matter content.

Technical: emphasizes advanced subject matter preparation.

Supervision: emphasizes industrial supervision.

Admission to the Program

In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in a related field with combined course work and industrial experience acceptable to the department.

Requirements for the Degree (45 units)

A total of 45 units is required, with at least 23 in 500-level courses.

Required Courses (13 units)

TECH 485 History, Philosophy, and Organization of Industrial Education (3)

TECH 487 Seminar: Comprehensive Career Education for Industrial Studies and Vocational Education (3)

TECH 502 Modern Industry (3)

EDFN 500 Evaluation of Educational Research (4)

Areas of Interest (20–24 units)

Select two of the following areas and complete 10–12 units in each:

Teaching (10–12 units)

With adviser approval, complete TECH 506 (4 units), TECH 583 (4 units), and 2–4 units of technology or education courses to total 10–12 units.

Technical (10–12 units)

With adviser approval, complete 10–12 units in 400-level TECH courses; TECH 598 may be included for 3–6 units.

Supervision (10–12 units)

With adviser approval, complete TECH 486 (3 units), TECH 505 (4 units), and 3–5 units of technology, business, or education courses to total 10–12 units; may include second enrollment in TECH 486.

Additional Electives (select 3–7 units in technology and related fields with adviser approval)

Thesis or Project (5 units)

TECH 599AB Thesis or Project (2, 3)

Credit Certificate Programs

The Department of Technology offers several credit certificate programs which are open to all students who meet stated prerequisites. These programs are listed with the department's bachelor's degree curricula, above. Regulations governing all certificate programs are found in the *Undergraduate Study: General Information* chapters.

List of Courses (TECH) - Undergraduate Level

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Undergraduate technology courses are arranged alphabetically according to subject matter areas, as follows:

- **Power, Energy and Transportation**
- **Aviation Administration**
- **Design**
- **Electronics Technology**
- **Fire Protection Administration**
- **Graphic Communications and Printing Management**
- **Industrial Crafts**
- **Industrial Design**
- **Manufacturing Technology**
- **Professional and Elective**
- **Construction Technology**

Power, Energy and Transportation

100 Introduction to Automotive Mechanisms (3)

Designed to meet general industrial education needs of Industrial Arts majors. Emphasis on general mechanical concepts and related physical principles, maintenance procedures, and consumer data. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

201 Automotive Electrical System (3)

Operating principles of battery, starter, and charging and accessory circuits of automobile; skill in diagnosis, testing, and repair procedures. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

301 Fuel and Ignition Systems (3)

Prerequisite: TECH 100. Theories of design and operation of ignition and fuel system components; techniques of engine trouble shooting and tune-up procedures. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

401 Engine Rebuilding (3)

Prerequisite: TECH 404. Theory of engine design, function, and operation, skill in engine rebuilding and engine machine tool operation. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

402 Power Transmission Systems (3)

Prerequisite: TECH 100. Theory of clutch mechanisms, fluid couplings, torque converters, automatic transmissions, overdrive and rear axle assemblies; repair and service of the power train. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

403 Chassis and Suspension Systems (3)

Prerequisite: TECH 100. Theory and design of brakes, front ends, wheel alignment and balance; includes testing, trouble diagnosis, and repair procedures. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

404 Small Power Plants (3)

Prerequisite: TECH 100. Design, construction, and service operations of one-cylinder engines, outboard motors, and gas turbines; emphasis on preventive maintenance procedures and testing. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

405 Engine Design and Performance (3)

Prerequisite: TECH 401. Theory of engine design and operation; requirements of modern gasoline power plants studied and performance factors analyzed under varying operating conditions; emphasis on dynamometer testing, engine disassembly, and assembly. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Aviation Administration**340 Airline Operations (4)**

Prerequisite: Upper division standing. Operational techniques and current problems confronting airlines: control tower operations, airport lighting, radio and meteorological service, reservations, ticketing, passenger trends, feasibility route studies, fire and crash protection, and air route traffic control centers. Field trips included.

341 General Aviation Operations and Administration (4)

Prerequisite: Upper division standing. Airport administration; organization, personnel, maintenance, zoning, facilities adequacy, financing, planning, operations, revenues and expenses, public relations, evaluation and safety; socioeconomic effect of airports on communities served.

342 Airline Administration (4)

Prerequisite: TECH 340 or 341. Airline operation and organization; air carrier familiarization; effect of federal regulations; industrial, financial, and economic decision-making.

343 Airport Administration (4)

Prerequisite: TECH 340 or 341. Airport operations: lighting, fuel systems, field marking, field buildings, hangars, communications, maintenance, protection/security, fire fighting, and surrounding community problems.

344 Aviation Law (4)

Prerequisite: TECH 340 or 341. Local, state, federal, and international aviation laws and regulations, safety and economic regulations; air legal systems.

345 Air Cargo (4)

Prerequisite: TECH 340 or 341. Efficient cargo handling by air mail, air express and air freight; research and utilization, comparison of scheduled and nonscheduled operations and contract or charter operations; flight equipment, stowage, and tie-down; insurance, tariffs, and operations.

346 National Airspace System and Air Traffic Control (4)

Prerequisites: Upper division standing; TECH 340 or 341. U.S. system of air navigation and air traffic control; communications, facilities, airways, controlled and special use airspace, and authorized flight procedures.

440 Safety Factors in Aviation (4)

Prerequisite: TECH 342 or 343. Safety related to air traffic control, passenger service, maintenance, and ground/air operations; history, accidents, terminology, liability, worker performance, information sources, and safety program organization.

441 Aviation Sales (4)

Prerequisite: TECH 342 or 343. Sales in airline operation and aviation industry; research, demand analysis, advertising and promotion, traffic, and price determination.

442 Airport Planning (4)

Prerequisite: TECH 342 or 343. Concepts of airport planning and construction; community surveys related to social, economic, and physical characteristics; political influences and phases of airport construction.

443 Air Transportation (4)

Prerequisite: TECH 342 or 343. Facilities, state and federal regulations, legal characteristics, problems, and services of U.S. carriers; organizational function of Federal Aviation Agency, Civil Aeronautics Board, and U.S. Bureau of Transportation.

444 Airline Equipment and Personnel (4)

Prerequisite: TECH 342 or 343. Legislation and regulation of airport finance, capital management, operating costs, airport-airline leasing, intergovernmental relations; airport policies and practices.

445 Quality Control and Inspection in Aviation (4)

Prerequisite: TECH 342 or 343. Inspection of aircraft, ground equipment, quality standards, sampling methods, equipment use, materials testing, and processes. Field trips to commercial airline maintenance shops and aircraft industries required.

447 Senior Seminar: Aviation Problems (4)

Prerequisite: TECH 443. Selected topics about current aeronautical administration problems; interaction with aviation executives. Field trips may be required.

Design**110 Introduction to Drafting (3)**

Application of theory and fundamentals of drafting; orthographic projection techniques applied for a basic understanding of architectural, machine, forging, casting, welding, and electronic drafting. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

311 Architectural Drafting I (3)

Prerequisite: TECH 110. Architectural design with reference to building codes, construction details, financing, and planning of residential or light commercial structures; critical analysis and comparison of various types of architecture and framing systems. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

312 Technical Illustration (3)

Prerequisite: TECH 110. Basic principles of technical illustration with emphasis on industrial techniques; introduction to newest mechanical aids, grids, and templates for production of isometric, dimetric, and perspective drawings. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

411 Tool Design (3)

Prerequisite: TECH 110. Application of principles of precision dimensioning, mechanics, and drafting to design of machines, tools, gears, and cams; selection and design of tools for mass production. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

412 Manufacturing and Construction Drafting (3)

Prerequisite: TECH 110. Introduction to structural, piping, fluid power, and sheet metal drafting, with emphasis on production drafting techniques and practices leading to production release. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

413 Architectural Drafting II (3)

Prerequisite: TECH 311 for Industrial Arts majors. Techniques of architectural rendering; application of color, shades, and shadows; use of grids and other mechanical devices; construction of architectural models. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

415 Electromechanical Drafting and Design (3)

Prerequisites: TECH 110, 120. Application of industrial methods of electromechanical drafting and design documentation through block diagrams, elementary diagrams, conversion drawings, master drawings, detail and assembly drawings, and generation of hardware. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

416 Piping Design Models (3)

Prerequisite: TECH 110. Exploration of concept of designing with models (rather than drawings) using petrochemical process piping as an exemplary learning vehicle. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Electronics Technology**120 DC Electronics (3)**

DC circuits; hands-on experiences in using VOM and DVM for basic electrical measurement and troubleshooting. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

221 AC Electronics (3)

Prerequisite: TECH 120. AC circuits; hands-on experiences testing inductors and capacitors and using oscilloscope for various voltage, frequency, and phase relationships measurement. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

321 Solid State Electronics (3)

Prerequisite: TECH 221. Behaviors of solid state devices (diode, BJT, MOSFET, IC) and their applications; project experiences in printed circuit board involving solid state devices. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

323 Industrial Electronics (3)

Prerequisite: TECH 321. SCR, TRIAC, DIAC, UJT, SSR; timers, optoelectronics, machine vision, operational amplifiers, and their applications; practical experiences in component testing, circuit operation, and applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

324 Linear Electronics (3)

Prerequisite: TECH 321. Linear circuits operations and applications; hands-on circuit testing and trouble-shooting plus applications projects. Lecture 1 1/2 hours; laboratory 4 1/2 hours.

325 Industrial Controls (3)

Prerequisite: TECH 321. Sensors and their control applications; process control and data acquisition; motor controls; practical control applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

326 Digital Electronics (3)

Prerequisite: TECH 321. Digital circuits with SSI and MSI chips applications; hands-on experiences in digital circuits and digital applications; trouble-shooting. Lecture 1 1/2 hours; laboratory 4 1/2 hours.

327 Microprocessors (3)

Prerequisite: TECH 326. Architecture, programming, interface, and applications of microprocessors; hands-on programming and interfacing applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

421 Electronic Communication I (3)

Prerequisite: TECH 321. Analog electronic communication devices and systems; hands-on experiences in various analog modulation methods. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

422 Electronic Communication II (3)

Prerequisite: TECH 421. Digital electronic communication devices and systems; hands-on experiences in various digital modulations methods. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

425 Programmable Controls (3)

Prerequisite: TECH 325. Applications, programming, and trouble-shooting of programmable logic controllers (PLC) and motion controls with servo and stepper motors; hands-on applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

426 Advanced Digital Electronics (3)

Prerequisite: TECH 326. Digital electronics with MSI chips plus programmable logical devices; hands-on projects. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

427 Advanced Microprocessors (3)

Prerequisite: TECH 327. Interfacing microprocessors with various electronic devices; hands-on applications, trouble-shooting skills, and project experiences. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

428 Computer Assisted Design (CAD) in Printed Circuit Board (PCB) Design and Manufacturing (3)

Prerequisite: TECH 326. Principles and uses of CAD software in productivity improvement of printed circuit board design and manufacturing processes; CAD experiences and field trips. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Fire Protection Administration**350 Fire Protection and the Community (4)**

Relationship of fire service and fire protection needs to critical urban issues, affirmative action, public education, communication with minority groups, interdepartmental and intradepartmental relations.

351AB Fire Defense Planning (4, 4)

Community fire defense needs, facilities, master plan development, federal assistance. Application of ISO Grading Schedule and Guide for Determining Fire Flow Requirements; impact of insurance. Field trips required.

352AB Fire Protection Aspects of Building Design (4,4)

Building construction including fire resistive materials, protective systems, testing of fire assemblies, heat and smoke detection devices, high-rise structures; plan checking. Field trips required.

353 Fire Disaster Administration (4)

Fire disaster protection organization; disaster laws; establishment of central communications and field control centers; support groups, manpower, and equipment; overhaul and security; disaster and civil defense relationships.

355 Fire Protection Laws (4)

Authority for fire department operations; pertinent federal, state, and local laws; fire department liability, member and citizen liability; fire department trial boards.

451 Fire Prevention and Building Codes: Interpretation and Enforcement (4)

Prerequisite: TECH 352AB. Interpretation of building, fire prevention, and State Fire Marshal codes; review of building plans; enforcement procedures and techniques; case studies and problems in code enforcement.

452 Fire Prevention Administration (4)

Prerequisite: TECH 451. Organization of Fire Prevention Bureau; laws and regulations, building and fire code administration; coordination with governmental and other organizations; functions of Fire Prevention Bureau; planning and training.

453AB Fire Protection Systems Design (4, 4)

Theories, principles, and types of fire protection systems; design and hydraulic calculations for sprinkler systems; review of fire protection systems plans.

455AB Fire Protection of Structural Members and Building Components (4, 4)

Fire protection of structural members, building components, and materials; their reaction under tension, compression, and shear during fire exposure.

Graphic Communications And Printing Management**130 Introduction to Graphic Arts (3) (also listed as JOUR 130)**

General industrial education course emphasizing the importance of graphic communications in our culture. History, theory, and laboratory-shop practice of varied printing processes, including letterpress, lithography, silk screen, and bookbinding. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

231 Graphic Arts Paste-up (3)

Prerequisite: TECH 130 or instructor consent based on previous training or occupational experience. Copy preparation, selection of paper and processes for printed material; cold type, paste-up techniques, reproduction proofs, and camera use emphasized. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

331 Typography I (3)

Prerequisite: TECH 130 or instructor consent based upon previous training or occupational experience. Intensive study of typography with emphasis on problems of type composition, make-up, imposition, and lock-up. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

332 Typography II (3)

Prerequisite: TECH 331. Principles of typography involved in machine composition; emphasis on operation and maintenance of slug casting machines. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

333 Presswork Procedures (3)

Prerequisite: TECH 130. Letterpress principles and procedures on platen and cylinder presses, make-ready, inks, automatic feeders. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

431 Lithography I (3)

Prerequisite: TECH 331. Lithographic theory and practice: copy preparation, camera, plate preparation, presswork, chemistry of lithography, photographic principles, color theory, printing inks and paper. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

432A Typographic Layout and Design I (4)

Prerequisite: Course in typography. Basic principles of design applied to products of the printer; thumbnail sketches, rough and finished layouts in solution of copy-fitting problems; selection of type, paper, and processes for reproduction.

432B Typographic Layout and Design II (5)

Prerequisite: TECH 432A. Continuation of 432A with stress upon layout and design of complete projects; use of working dummies to illustrate problems of printing production; elements of book design.

433 Printing Estimating (5)

Prerequisite: TECH 435. Elements of estimating all classes of printing and lithography involving type composition, presswork, binding, paper, photo engravings, and cost-finding problems.

434 Printing Plant Management (4)

Prerequisite: Senior standing in Printing Management option. Organizational and management of all departments in the printing plant; application of industrial management factors to the departments; inspection trips to study production methods and organization of local printing plants.

435 Lithography II (3)

Prerequisite: TECH 431. A continuation of TECH 431, with additional emphasis on camera, plate preparation, and press operation. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

438 Advanced Paste-Up (3)

Prerequisite: TECH 231. Advanced copy preparation techniques for makeup production for commercial, newspaper, and magazine printing; computerized photocomposition equipment operation including markup and programming methods. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Industrial Crafts**448 Plastics Technology (3)**

History, materials, processes, and application of plastics technology; principles and procedures of modern application in industry. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Industrial Design**144 Introduction to Industrial Design (3)**

Creative problem-solving and aesthetics, application through two- and three-dimensional exploratory exercises in color, texture, shape, form, structure, and space through simple industrial design problems. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Manufacturing Technology**160 Introduction to Metalworking (3)**

Basic metal properties, metalworking processes, and hand and machine tool applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

261 Sheet Metal Layout and Development (3)

Prerequisite: TECH 160. Sheet metal layout and development, cutting, forming, fastening, finishing; industrial applications of these processes. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

361 Welding Technology (3)

Prerequisite: TECH 160. Inert gas, oxyacetylene, and electric arc welding, cutting, brazing, and testing theory and practice. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

362 Heat Treating and Metallurgy (3)

Prerequisite: TECH 160. History, techniques and principles of forging, heat treating, and metallurgy. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

461 Molding and Casting (3)

Prerequisite: TECH 160. Techniques, principles, practices of metal molding and casting. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

463 Metal Machining I (3)

Prerequisite: TECH 160. Construction, utilization, and laboratory applications of the engine lathe, shaper, and milling machines. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

464 Metal Machining II (3)

Prerequisite: TECH 160. Advanced study of engine lathe, shaper, milling machines, grinding machines; emphasis on special setups and applications. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

465 Automated Metal Machining (3)

Prerequisite: TECH 160. Advanced study of metal machining with emphasis on semi-automatic, automatic tape controlled, and grinding operations. Lecture 1 1/2 hours, laboratory 4 1/2 hours. May be repeated to maximum of 9 units.

Professional and Elective**101 Industrial Safety for Industrial Education (3)**

Industrial safety related to industry and school shops; history, accident facts, liability, psychology, worker performance, sources of information, and industrial methods of operation.

200 History of Technology (3)

Human accomplishment in areas of discovery, invention, and industry from prehistoric times to present.

250 Impact of Technology on the Individual and Society (4) GE E

Prerequisite: None. An exploration of the theory and fundamentals of basic technological systems used to extend human potential and their impact on individual human development within global social systems.

280 Tools for the Artist (3)

Safe, efficient, and appropriate operation, adjustment, and maintenance of power and hand tools used by artist. Not appropriate for Industrial Technology majors or minors; Art majors and minors have enrollment preference.

291 Computers in Technology (3)

Prerequisite: CS 190 or any programming language course. Introduction to computers with applications for the technologist. Designed to assist students in becoming literate in topics applicable to technological areas such as production, manufacturing, and CAD/CAM. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

300AB Foundations of Industrial Education (2, 2)

Philosophy and development of industrial education; its present place and function in elementary and secondary education.

380 Industrial Graphic Communication Technology (3)

Concept of graphic communication technology in industrial education. Emphasis on practices in modern industry; examination of recent and projected technological development.

381 Materials, Process, and Fabrication Technology (3)

Technologies in conversion of raw materials to products; essential concepts and manipulative operations for cutting, forming, fastening, finishing, and testing wood, ferrous and nonferrous metals, plastics, and ceramic materials.

382 Power Technology (3)

Power technology concept in industrial education; survey of available energy, various forms of power conversion; utilization of power in modern industry and in industrial production processes.

**383 Ancient and Modern Technology (4)
(also listed as ENGR 383)**

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block B. Systematic analysis of ancient technology and technological thought and its relationship to modern science and technological thought.

385 Orientation to Vocational Education (3)

Prerequisite: Admission to BVE program. Introduction to requirements and content of BVE degree program including Swan Bill (career experience credit) evaluation.

395 Community Service in Technology (1-4)

Prerequisites: Eight units of upper division TECH courses, approval by faculty sponsor in consultation with EPIC Director; acceptance by a community agency. Participation in work of community agency or activity utilizing professional skills in community service. Graded CR/NC. May be repeated to maximum of 8 units.

400 Written Communication Skills for Industrial Technology (4)

Prerequisites: ENGL 102 and UNIV 400. Written communication skills for the professional needs of Industrial Technology students with emphasis on education, public, industrial, business education and public sector requirements.

414 Robotics in Industry (2)

Prerequisite: Upper division or graduate standing. History, terminology, economics, applications, and implications of industrial robots in the work place.

454L,P Special Topics in Industrial Studies (1-4)

Prerequisites: Upper division standing; others as needed for specific topic. Current issues, problems, and interests in technology. May be repeated to maximum of 9 units as subject matter changes.

480 Comprehensive General Shop (3)

Prerequisite: Completion of required foundation program for Industrial Arts major. General shop movement, organization and operation of multiple laboratory programs, design and construction of projects and aids; laboratory organization and management procedures. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

481 Practicum in Industrial Technology (4)

Prerequisites: Completion of an area of concentration and instructor consent. Application of industrial studies concepts and skills to design, production, and/or serving of commercial and industrial products and devices. Lecture 2 1/2 hours, laboratory 4 1/2 hours. May be repeated to maximum of 8 units.

482 Metrics for Industry (3)

Adapting industrial operations to metric system; standards and application; development of instructional materials; special problems for industrial educators.

483AB Construction of Teaching Aids (2, 2)

Development for industrial education of instructional aids such as cutaway models, mock-ups, assignment boards, checking devices for course coverage, blown-up models, electrical identification panels, procedure boards, specimens, and project materials. Activity 4 hours.

484 Automated Manufacturing Systems (4)

Applications and theories of advanced production systems in automated manufacturing environments; emphases include direct and computer numerical control, computer integrated manufacturing CAD/CAM; flexible manufacturing; group technology. Lecture 2 1/2 hours, laboratory 4 1/2 hours.

485 History, Philosophy, and Organization of Industrial Education (3)

Prerequisites: TECH 300AB, upper division standing, Industrial Arts major or minor or Vocational Education major. History and philosophy of industrial education in Western civilization; comparative study of development and organization of industrial education in the U.S.

486 Seminar: Vocational Education (1–4)

Prerequisite: Upper division standing. Problems in maintaining and modifying vocational education programs. Emphasis on changing philosophies, concepts, practices, legislation, technical content, instruction, organization, and management. May be repeated with instructor consent.

487 Seminar: Comprehensive Career Education for Industrial Studies and Vocational Education (3)

Prerequisite: Upper division standing in the Department of Technology. Development, organization, and implementation of comprehensive career education for industrial arts and vocational education; emphasis on concepts, techniques, strategies, implementation, levels of instruction, leadership, administration, and organization. May be repeated to maximum of 9 units as subject matter changes.

488 Fluid Power (3)

Prerequisite: PHYS 150. Application of principles of industrial hydraulic and pneumatic circuits; emphases on basic laws and operation of pressure, directional control valves, and actuators as they apply to manual and automated circuits. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

489 Industrial Training Methods (4)

Training approaches for industrial/technical management personnel; overview of design and management of the training function in the modern work world, instructional design, and delivery systems.

490 Advanced Problems in Industrial Studies (1–9)

Prerequisites: Completion of an area of concentration and instructor consent. Advanced problems in a specific industrial arts area of concentration. Lecture 1 1/2 hours, laboratory 4 1/2 hours for 3 units; other unit values use same ratio. Each industrial arts area of concentration may be repeated for 9 units

490A Automotive**490D Drafting****490E Electronics****490G Graphic Arts****490M Metal Technology****490W Wood Technology****499 Undergraduate Directed Study (1–4)**

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor before registration; progress meetings held regularly, and final report submitted. May be repeated for 8 units of credit.

Construction Technology**170 Introduction to Wood Technology (3)**

Woodworking industries, their origins, developments, technical aspects, and influences upon human occupational, social, cultural, recreational, and consumer activities; safety, common properties, characteristics, structure, shaping, finishing processes of wood and its industrial usage. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

271 Wood Construction Technology I (3)

Prerequisite: TECH 170. Physical and mechanical properties of wood and its architectural usage; application of uniform building code to construction of dwellings. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

272 Wood Construction Technology II (3)

Prerequisite: TECH 170. Cabinetmaking and mill work procedures used in industry; design, joinery, hardware, and manufacture of plywood and veneers. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

372 Wood Finishing and Preservation (3)

Prerequisite: TECH 170. Protection of wood against deterioration by fire, moisture, insects, fungus, and weather; surface enrichment emphasized; experiments and application of protective materials including finishes. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

374 Wood Shaping Processes (3)

History, materials, processes, and application of wood carving; principles and procedures of modern application in industry. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

471 Lamination, Forming, Bonding (3)

Prerequisite: TECH 170. Processes of lamination and forming of wood and other materials. Equipment and bonding materials; laminating and forming characteristics of various materials; laboratory includes design and construction. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

472 Wood Manufacturing Technology I (3)

Prerequisite: TECH 170. Structure, identification, defects, curing, grading, joining, and fastening of commercial woods and related materials; design and construction of furniture and accessories. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

473 Wood Manufacturing Technology II (3)

Prerequisite: TECH 472. Mass production of products using wood as a basic material; design and development of jigs, fixtures, and tooling; design and production of items. Lecture 1 1/2 hours, laboratory 4 1/2 hours.

Graduate Level Courses (TECH)

All 400-level courses may be applied toward master's degree requirements, subject to limits established by the department and approval of the graduate adviser.

Classified graduate standing is required for admission to all 500 level courses

502 Modern Industry (3)

Prerequisites: An acceptable undergraduate major in Industrial Technology, Industrial Arts or Vocational Education, or comprehensive background of industrial experience, and TECH 300AB. Advanced study of growth, development, and organization of industry; new materials and processes. Problems of industry with significance for present social order.

505 Supervision and Organization of Vocational Education (4)

Responsibilities of supervisor for organizing vocational education programs at various levels and for improving instruction. May be repeated to maximum of 8 units with permission of instructor.

506 Seminar: Industrial Education (4)

Investigation of teaching problems in industrial education. Individual and group studies of special problems.

507 Seminar: Industrial Studies (4)

Prerequisite: TECH 502. Advanced study of developments in industrial materials, processes, machines, and equipment; relationships between industrial developments and society; emphasis on research and investigation.

583 Development, Use, and Evaluation of Industrial Education Instructional Materials (4)

Advanced course in development, use, and evaluation of instructional materials, with emphasis on three-dimensional teaching aids, charts, slides, and displays.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to maximum of 9 units.

599A Thesis or Project (1–2)

Prerequisites: Instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to total of 2 units. Graded *CR/NC*.

599B Thesis or Project (1–3)

Prerequisites: TECH 599A, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. Must be repeated to total of 3 units. Graded *CR/NC*.

Department of

Theatre Arts and Dance

School of Arts and Letters

DEPARTMENT OFFICE

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The Department of Theatre Arts and Dance offers undergraduate programs leading to the Bachelor of Arts degree in Theatre Arts and Dance, as well as a minor in Theatre Arts and Dance for students majoring in other fields. The Theatre Arts and Dance major includes options in Theatre Arts and Dance. The department also offers a Master of Arts degree in Theatre Arts.

The Faculty

Professors: Dale Carter (Acting Chair), Pamela Dunne, Clifford D. Harper, Linda I. Kostalik, Nancy E. Kupka, Susan Mason

Associate Professors: José Cruz González, Grace Shizuko Herrera, Theresa Larkin, Hae Kyung Lee.

Assistant Professors: Snezana Petrovic.

Emeriti: Walter S. Beaver, Janice E. Day, Lawrence P. Goodman, Marjorie M. Smith.

Undergraduate Programs

Bachelor of Arts Degree in Theatre Arts and Dance

The Bachelor of Arts degree in Theatre Arts and Dance is designed for students who plan to engage in careers that utilize skills in theatre and dance.

Department policy requires that all undergraduate Theatre Arts and Dance majors make themselves available for participation in scheduled department productions.

Requirements for the Major (99 units)

The major requires a total of 99 units, including core and option requirements. The core of 40 units includes courses in theatre arts, dance, and combined theatre and dance. Each option (Theatre Arts or Dance) includes 59 units in required courses and electives.

Core Requirements (40 units)

Lower Division Required Courses (22 units)

DANC 100A	Beginning Ballet (3)
DANC 140A	Beginning Modern Dance (3)
DANC 272	Choreography I: Improvisation (3)
TA 141	Acting Fundamentals: Games and Exercises (3)
TAD 101	Introduction to Theatre Arts and Dance (1)
TAD 132	Stagecraft II (3)
TAD 133	Stagecraft III (3)
TAD 149	Breath, Movement, Voice I (3)

Upper Division Required Courses (18 units)

TAD 339	Stage Management (3)
TAD 390	Performance Research and Writing (4)
TAD 467	Theory and Method in Performance Studies (4)
TAD 468	Performance and Social Change (4)

Performance Practicum in the Community:

Select 3 units from:

DANC 483	University Dance Ensemble Tour (3)
DANC 484	Educational Dance Tour (3)
TA 402	Children's Theatre Tour (3)
TAD 486	Cross Cultural Approaches to Social Performance (3)

Options

Select one of the following options, with adviser approval.

Theatre Arts Option (59 units)

Lower Division Required Courses (12 units)

TA 142	Acting Fundamentals: Character Study (3)
TA 143	Acting Fundamentals: Scene Study (3)
TA 276	Introduction to Playwriting (3)
TAD 131	Stagecraft I (3)

Upper Division Required Courses (35 units)

TA 301	Creative Dramatics (4)
TA 311	Development of World Theatre I (4)
TA 312	Development of World Theatre II (4)
TA 313	Development of World Theatre III (4)
TA 322	Theatrical Makeup (3)
TAD 348	Breath, Movement, Voice II (3)
TAD 439	Arts Management (4)
TA 445	Principles of Directing I (3)
TA 446	Principles of Directing II (3)

Select one from:

TA 426	Introduction to Stage Costuming (3)
TA 431	Introduction to Stage Scenery (3)
TA 434	Introduction to Stage Lighting (3)

Electives

Select 12 units with adviser approval:

TA 300	Play Production (1-2)
TA 306	Children's Theatre (4)
TA 310	Play Performance (2)
TA 341	Advanced Performance I: Classical Acting (3)
TA 342	Advanced Performance II: Scene Study (3)
TA 343	Advanced Performance III: Acting Collaboration (3)
TA 400	Development of Drama Literacy (4)
TA 401	Advanced Creative Dramatics (4)
TA 422	Advanced Theatrical Makeup (4)
TA 426	Introduction to Stage Costuming (3)
TA 427	Stage Costume Design (3)
TA 431	Introduction to Stage Scenery (3)
TA 432	Stage Scenery Design (3)
TA 434	Introduction to Stage Lighting (3)

Electives (cont'd):

TA 435	Stage Lighting Design (3)
TA 450	Principles of Directing III (3)
TA 454L,P	Selected Topics in Theatre Arts (1-4)
TA 459	Studies in Selected Dramatists (1-4)
TA 461	Nature of Dramatic Comedy (4)
TA 462	Nature of Dramatic Tragedy (4)
TA 463	Shakespeare as Living Theatre (4)
TA 464	Contemporary U.S. Theatre (4)
TA 471	Theatre of the Avant -Garde (4)
TA 475	Dramaturgy (4)
TA 476	Playwriting (4)
TA 478	Therapeutic and Educational Uses of Drama (4)
TA 479	Life Scripts (4)
TA 480	Cinema as a Dramatic Art (4)
TA 485	Children's Film (2)
TA 489	Advanced Creative Workshop (2)
TAD 349	Breath, Movement, Voice III (3)

Dance Option (59 units)**Lower Division Required Courses (18 units)**

DANC 100B	Beginning Ballet (3)
DANC 140BC	Beginning Modern Dance (3,3)
DANC 240ABC	Intermediate Modern Dance (3,3,3)

Upper Division Required Courses (27 units)

DANC 340	Advanced Modern Dance (2)
DANC 372	Choreography II: Dance Composition (3)
DANC 470	Theory and Analysis of Dance (3)
DANC 471	Rhythmic Form and Analysis for Dance (3)
DANC 472	Choreography III: Advanced Dance Composition (3)
DANC 475	Choreographic Accompaniment (3)
DANC 476A	Dance History-Primitive to 20th Century (4)
DANC 476B	Survey of Contemporary Dance Development and Vocabulary in the 20th Century (4)
DANC 480	University Dance Ensemble (2)

Electives in Dance

Select 14 units with adviser approval	
DANC 100C	Beginning Ballet (3)
DANC 120	Beginning Jazz Dance (2)
DANC 160	Beginning Tap Dance (2)
DANC 200ABC	Intermediate Ballet (3,3,3)
DANC 220	Intermediate Jazz Dance (2)
DANC 240ABC	Intermediate Modern Dance (3,3,3)
DANC 260	Intermediate Tap Dance (2)
DANC 272	Choreography I: Improvisation (3)
DANC 300	Advanced Ballet (2)
DANC 320	Advanced Jazz Dance (2)
DANC 340	Advanced Modern Dance (2)
DANC 372	Choreography II: Dance Composition (3)
DANC 400	Development of Dance Arts Literacy (4)
DANC 401	Dance Techniques and Creativity in Elementary Education (4)
DANC 435ABC	Dance Movement and Identity (4)

Electives in Dance (cont'd):

DANC 454L,P	Special Topics in Dance (1-3)
DANC 461	Ethnic Dance (4)
DANC 472	Choreography III: Advanced Dance Composition (3)
DANC 478	Choreography for Camera (3)
DANC 480	University Dance Ensemble (2)
DANC 483	University Dance Ensemble Tour (3)
DANC 484	Educational Dance Tour (3)
DANC 485	Dance Production (3)
TA 300	Play Production (1-2)
TA 322	Theatrical Makeup (3)
TAD 131	Stagecraft I (3)
TAD 348	Breath, Movement, Voice II (3)
TAD 349	Breath, Movement, Voice III (3)
TAD 439	Arts Management (4)

Minor in Theatre Arts and Dance

This program is suggested for students in allied arts, music, and recreation and students whose career objectives include interpersonal relationships in a humanistic context. A total of 31–32 units is required.

Minor in Theatre Arts and Dance (31–32 units)**Lower Division Required Courses (13 units)**

DANC 140A	Beginning Modern Dance (3)
TA 141	Acting Fundamentals: Games and Exercises (3)
TA 152	Analysis of Drama (4)
TAD 131	Stagecraft I (3)

Upper Division Required Courses (12 units)

DANC 476B	Survey of Contemporary Dance: Development and Vocabulary in the 20th Century (4)
TA 313	Development of World Theatre III (4)
TAD 468	Performance and Social Change (4)

Electives (6–7 units)

Select one from the following with adviser approval:

DANC 454L,P
TA 445, 454L,P, 460
TAD 348

Select one from the following with adviser approval:

TA 322, 426, 431, 434
TAD 339, 439

The Credential Program

The Department of Theatre Arts and Dance does not have a program for the Single Subject credential in English approved by the Commission on Teacher Credentialing. Students interested in this credential should consult advisers in the Department of English or Communication Studies and in the Charter School of Education.

Graduate and Postbaccalaureate Programs

Master of Arts Degree in Theatre Arts Admission to the Program

Application must be made to both the Department of Theatre Arts and Dance and the University. Forms for both may be obtained from the department office.

Applicants must submit completed departmental applications with one copy of transcripts from all colleges attended, three letters of recommendation, a statement of purpose for undertaking graduate studies, an artistic resume and/or portfolio (if appropriate). All applicants must submit a writing sample illustrating command of research and writing skills. Applications and supporting documentation must be received by the department of Theatre Arts and Dance before June 15 for admission Fall Quarter, October 1 for Winter Quarter, February 1 for Spring Quarter, and April 1 for Summer Quarter.

University applications and two copies of official transcripts from all colleges attended must be sent to the Admissions Office in accordance with University admission deadlines. GRE examinations are recommended for those students considering the MA as preparation for a Ph.D. International students must submit TOEFL scores. Campus interview and visits with faculty are encouraged for all applicants seeking admission.

In addition to University requirements for admission to graduate study, applicants must have a baccalaureate in theatre arts, dance, or performance studies from an accredited college or university with a minimum 3.0 average in the major, or have completed a baccalaureate in a related field with at least 24 quarter units of approved upper division courses in one or more of these areas with a minimum 3.0 average. Of the 24 quarter units, at least 9 quarter units must be in theatre history, literature, and/or dance history courses and 6 quarter units of upper division work in technical theatre. Deficiencies will be determined by the Director of Graduate Studies, and undergraduate coursework may be required.

Requirements for the Degree (45 units)

All students are required to serve in at least one of the following capacities during their graduate study: as an actor in two or more substantial acting roles; as director of a one-act

play or a full-length play; as scenic, lighting, or costume designer of a production; or as assistant to the faculty director for one production. This requirement must be met within framework of regularly sponsored department productions.

A total of 45 units is required, with at least 23 in 500-level courses.

Required Core (20 units)

- TA 511 Seminar: Special Studies in Theatre History (4, 4)
- TA 541 Seminar: Theories of Acting (4)
- TA 566 Seminar: Dramatic Theory (4)
- TA 570 Seminar: Experimental Theatre (4)

Electives (14–17 units)

Select 3 units in one of following:

- TA 595 Graduate Performance (3) **or**
- TA 598 Graduate Directed Study (3)

(for students who select comprehensive examination)

Select 8 units from following:

- TA 441, 442, 443, 445, 446, 454L,P, 460, 461, 462, 463, 471, 472, 476

Select 6 units from following:

- TA 422, 426, 427, 431, 432, 434, 435, 439

Additional electives (8 units)

Select with adviser approval.

Comprehensive Examination or Thesis or Project (0, 3 units)

**TA 596 Comprehensive Examination (0) or

TA 599 Thesis or Project (3)

***To be taken in combination with 3 units of TA 595 and/or 598*

The choice of comprehensive examination or thesis or project is to be made with adviser approval.

Students should expect to take the comprehensive examination (TA 596) the quarter they complete all course work on their program and must comply with school and departmental requirements.

List of Courses – Undergraduate Level

Courses in Dance (DANC)

Lower Division Courses

100A Beginning Ballet (3)

Activities to develop technical skills at the beginning ballet level. Supporting information including ballet vocabulary and historical developments. Nonmajors may repeat to a maximum of 9 units.

100B Beginning Ballet (3)

Prerequisite: DANC 100A or instructor consent. Beginning ballet technique emphasizing additional materials for ballet barre, center practice and vocabulary. Introduction of contemporary concepts in the classical idiom. Nonmajors may repeat to maximum of 9 units.

100C Beginning Ballet (3)

Prerequisite: DANC 100B or instructor consent. Beginning technique emphasizing center practice, classical and contemporary enchainments. Introducing schools of ballet, historical information relevant to the style and form. Nonmajors may repeat to maximum of 9 units.

120 Beginning Jazz Dance (2)

Activities designed to develop beginning skills in jazz dance accompanied by background information relevant to the dance form. May be repeated to maximum of 6 units.

135 Therapeutic Uses of Dance (1)

Dance therapy as a process that affects an individual's transformation of ongoing energy flow to overt body movement to imagery to verbalization. May be repeated to maximum of three units.

140A Beginning Modern Dance (3)

Activities to develop technical skills in modern dance at the beginning level. Relevant modern dance vocabulary; historical developments presented. Nonmajors may repeat to a maximum of 9 units.

140B Beginning Modern Dance (3)

Prerequisite: DANC 140A or instructor consent. Beginning modern technique emphasizing center practice, traditional and contemporary combinations. Introducing modern dance history, exploring technical styles, creative studies. Nonmajors may repeat to maximum of 9 units.

140C Beginning Modern Dance (3)

Prerequisite: DANC 140B or instructor consent. Beginning modern dance technique, emphasizing center practice, floor work, relevant modern dance vocabulary. Introducing contemporary concepts in the classical idiom. Nonmajors may repeat to maximum of 9 units.

154 Special Topics in Dance (1)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated as subject matter changes.

157 Crosscultural Themes in Dance (4)

Analyzing developments in dance and cultivating imagination and sensitivity to cross-cultural themes in human behavior. Understanding ongoing cultural dance traditions.

Lecture 3 hours; activity 1 hour.

GE C2

160 Beginning Tap Dance (2)

Activities designed to develop beginning skills in tap accompanied by background information relevant to the dance form. May be repeated to maximum of 6 units.

200A Intermediate Ballet (3)

Prerequisite: TAD major, DANC 100C, or instructor consent. Activities developing skills at intermediate level of ballet. Material on vocabulary and relevant theoretical considerations. Beginning a foundation of knowledge of ballet aesthetics. May repeat to a maximum of 6 units.

200B Intermediate Ballet (3)

Prerequisite: DANC 200A or instructor consent. Activities developing skills at the intermediate level. Supporting materials on vocabulary and relevant theoretical considerations. Continued building the foundation of knowledge of ballet aesthetics. May repeat to a maximum of 6 units.

200C Intermediate Ballet (3)

Prerequisite: DANC 200B or instructor consent. Activities to continue mastering intermediate ballet technique. Supporting materials on vocabulary, relevant theoretical information and broadening knowledge of ballet aesthetics. May repeat to maximum of 6 units.

**210 Body and Identity in Dance, Theatre, Film (4)
(also listed as BCST and TA 210)**

The aesthetic bases of dance, theatre and mass media will be established using the human body as core focus. Exploration of body representation as affected by culture, gender and class.

GE C2

220 Intermediate Jazz Dance (2)

Prerequisite: DANC 120. Activities designed to develop intermediate skills in jazz dance accompanied by background information relevant to the dance form. May be repeated to maximum of 6 units.

240A Intermediate Modern Dance (3)

Prerequisite: TAD major, DANC 140C, or Instructor consent. Activities to develop technical skills at the intermediate modern dance level. Relevant modern dance vocabulary and varied theories presented. May repeat to maximum of 6 units.

240B Intermediate Modern Dance (3)

Prerequisite: DANC 240A or Instructor consent. Intermediate modern dance technique emphasizing center and across floor materials; relevant dance vocabulary and aesthetic considerations. Set and original combinations from varied theorists. May repeat to maximum of 6 units.

240C Intermediate Modern Dance (3)

Prerequisite: DANC 240B or instructor consent. Intermediate modern dance technique emphasizing center and across floor materials; choreographic sequences introduced; varied theories presented; relevant dance vocabulary and aesthetic considerations. May repeat to maximum of 6 units.

254L,P Special Topics in Dance (1-3)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated to a maximum of 12 units as subject matter changes.

260 Intermediate Tap Dance (2)

Prerequisite: DANC 160. Techniques and practice of tap dance; single, duple, triple, and quadruple tap sounds combined in rhythmic sequences and developed into dances. May be repeated to maximum of 6 units.

272 Choreography I: Improvisation (3)

Prerequisites: TAD Major or instructor consent; DANC 140A; DANC 100A. Improvisational techniques utilizing dance movements to develop individual/group sensitivities, concentration and discoveries to begin the forming process used in creating dances. May be repeated to maximum of 12 units.

Upper Division Courses**300 Advanced Ballet (2)**

Prerequisite: TAD major, DANC 200C, or Instructor consent. Continued development of technical skills, choreographic combinations, knowledge of history and styles: Italian, Russian, French, English, Danish, American. May repeat to maximum of 12 units.

320 Advanced Jazz Dance (2)

Prerequisite: DANC 120; corequisite: (specific lab to be designated each quarter). Expanded development of skills, knowledge, analysis ability, and study of application of elements of jazz dance in solo and group work. May be repeated to maximum of 6 units.

340 Advanced Modern Dance (2)

Prerequisite: TAD major, DANC 240C, or instructor consent. Continued development of technical skills, creative dance study, knowledge of history and aesthetics appropriate for the advanced level of modern dance. May be repeated to maximum of 12 units.

**357 Creative Experiences for Health and Wellness (4)
(also listed as ART 357, MUS 357, and TA 357)**

Prerequisites: ART 151 or MUS 150 or 160; DANC 157 or TA 152 or HS 150. Exploring health and wellness through participation in the creative arts - dance, visual arts, music and theatre arts.

372 Choreography II: Dance Composition (3)

Prerequisite: TAD major; DANC 272; or instructor consent. Principles of dance composition through individual experiences with varied stimuli, differing construction processes, simple musical forms. May be repeated to maximum of 12 units.

400 Development of Dance Arts Literacy (4)

Perceptual, expressive, historical, and cultural components associated with dance-aesthetic phenomena; lectures, movement experiences, visits to dance events. Lecture 2 hours, activity 4 hours.

401 Dance Techniques and Creativity in Elementary Education (4)

Prerequisite: DANC 400. Ballet basics, modern dance technique, improvisation and creative problem solving for the elementary educator. Viewing and critical analysis of dance.

435ABC Dance Movement and Identity (4,4,4)

Prerequisites: DANC 157, DANC 400 or instructor consent. Theoretical framework, conceptual development and practice of using dance to promote awareness, insight and growth, allowing for integration of cognitive, emotional and physical functions. Lecture 2 hours, activity 4 hours.

454L,P Special Topics in Dance (1-3)

Current topics of special interest in dance, as announced in Schedule of Classes. May be repeated to a maximum of 12 units as subject matter changes.

461 Ethnic Dance (4)

Prerequisite: DANC 372. Study of specific ethnic cultures and the political, social, economic and religious structures that influence and shape their dances, music, movement and meaning. Content varies.

470 Theory and Analysis of Dance (3)

Prerequisite: Advanced level in dance technique. Theory, analysis, and advanced performance of dance; structural elements, rhythm, creativity, and selection of accompaniment. Lecture 2 hours, demonstration laboratory 2 hours each.

471 Rhythmic Form and Analysis for Dance (3)

Prerequisites: DANC 140C, DANC 272. Historical analysis of rhythmic elements inherent in music and movement; application and appreciation of their organization as a basis of form in dance. Seminar 1 hr, Laboratory 6 hrs.

472 Choreography III: Advanced Dance Composition (3)

Prerequisite: TAD major, DANC 372, or instructor consent. Application of principles/materials of dance, developing solo and group dances for concert productions. Applied theories of contemporary choreographers/their composers. May be repeated to maximum of 12 units.

475 Choreographic Accompaniment (3)

Corequisite: DANC 476A or Instructor consent. Analysis of music for dance from historical periods. Students' choreographies reflective of primitive through 20th Century musical forms, compositions. Seminar 1 hr, Laboratory 6 hrs.

476A Dance History-Primitive to 20th Century (4)

Prerequisite: DANC 272. Study of dance forms: primitive, medieval, renaissance, ballet, jazz and modern as they relate to social, political, economic and religious structures that inspired their development. Lecture 2 hours, Activity 4 hours.

476B Survey of Contemporary Dance Development of Vocabulary in the 20th Century (4)

Prerequisite: DANC 272. Survey of contemporary dance development and vocabulary in world cultures as they relate to social, political, economic and religious structures in the 20th Century. Emerging trends. Lecture 2 hours, Activity 4 hours.

477 Experiential Survey of Dance History (4)

Prerequisite: DANC 400. Experiential survey of dance history from primitive to contemporary. Emphasis on authentic dances and creative movement expressing diverse cultural beliefs, ceremonies. Field trips. No credit toward TAD majors.

478 Choreography for Camera (3)

Prerequisite or corequisite: DANC 472; BCST 201 recommended. Investigation and application of choreographic principles appropriate to television and/or cinema. Lecture 2 hours, laboratory 2 hours.

480 University Dance Ensemble (2)

Prerequisite: Instructor consent. Preparation of lecture-demonstrations and dance performances. May be repeated to maximum of 12 units.

483 University Dance Ensemble Tour (3)

Prerequisite: DANC 480 or instructor consent. Rehearsals and tour into community / schools of dance concert and/ or lecture-demonstration. Satisfies core requirement of performance practicum in the community. May be repeated to maximum of 6 units.

484 Educational Dance Tour (3)

Prerequisites: DANC 400 or 477 or instructor consent. Rehearsals and tour into schools of material generated in Dance Arts Literacy or experiential survey courses. Practicum in integrating arts into elementary education. May be repeated to maximum of 6 units.

485 Dance Production (3)

Prerequisite: DANC 472. Preparation of dance materials for performance; directing, lighting, costuming, and makeup for dance. Lecture 2 hours, demonstration-laboratory 2 hours.

Courses in Theatre Arts (TA)**Lower Division Courses****100 Play Practicum (1)**

Active participation in University-sponsored dramatic activities. Assignments may include acting, directing assistance, lighting, scenery, costuming, props, and house management. May be repeated to maximum of 4 units.

141 Acting Fundamentals: Games and Exercises (3)

Basic principles and techniques of acting. Exploration of creative processes through theatre games and improvisational exercises. Additional hours required. CAN DRAM 8

142 Acting Fundamentals: Character Study (3)

Basic principles and techniques of acting. Building a character through textual analysis and practical work based on text. Additional hours required.

143 Acting Fundamentals: Scene Study (3)

Basic principles and techniques of acting. Analysis of scene structure, use of subtext, actions, and objectives. Performance of selected scenes. Additional hours required.

152 Analysis of Drama and Theatre (4)

Principles of drama and theatre; social relevance of theatre; dramatic structures and styles of diverse forms of theatre; practical theatre exercises; evaluation and appreciation of plays in performance.

GE C1

154L,P Selected Topics in Theatre Arts (1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in Theatre Arts as announced in Schedule of Classes.

160 Living Theatre (4)

Survey of live theatre; appreciating and understanding actual theatrical productions and practices: acting, playwriting, costumes and makeup design, nature of the theatrical event. Lecture 2 hours, demonstrations-practical work-field trips, 4 hours.

**210 Body and Identity in Dance, Theatre, Film (4)
(also listed as BCST and DANC 210)**

The aesthetic bases of dance, theatre and mass media will be established using the human body as core focus. Exploration of body representation as affected by culture, gender and class. **GE C5**

240 Film, Novel, Theatre (4)

(also listed as BCST and ENGL 240)

Prerequisite: Completion of ENGL 101.

An exploration of film, theatre, and fiction through the process of adaptation. Analysis of the roles of audience, modes of delivery, concepts of form and structure, and cultural impact. **GE C5**

276 Introduction to Play Writing (3)

(also listed as ENGL 276)

Prerequisite: ENGL 200A or 200B or 200C or TA 152. Collaborative approach to writing for the stage; emphasizes writing theory and techniques; introduction to dramaturgy, directing, literary management, and staged reading.

Upper Division Courses**300 Play Production (1–2)**

Technical preparation/presentation of University-sponsored production; Transfer majors must complete at least 6 units. Non majors must enroll whenever cast in department productions. Meets more than 6 hours per week.

301 Creative Dramatics (4)

Philosophies and techniques of creative dramatics. Emphasis on improvisation, play making, pantomime, ongoing drama, story dramatization, role playing; selected projects and demonstrations.

306 Children's Theatre (4)

Philosophies, attitudes, and forces shaping current practices in children's theatre; selected scripts and production techniques.

310 Play Performance (2)

Prerequisite: Admission by audition only. Detailed work on a major production with rehearsal and performance requirements. Enrollment required for performance participation. Meets more than 6 hours each week. May be repeated to maximum of 12 units.

311 Development of World Theatre I (4)

Significant developments in world dramatic literature and theatre from origins through 17th century with emphasis on classical Greece/Rome, Medieval, Sanskrit, Renaissance Italy, Spain, France and England, and pre-Columbian American.

312 Development of World Theatre II (4)

Significant developments in world dramatic literature and theatre from the 17th to 20th century; emphasis on traditional Japanese and Chinese, 17th through 19th century romanticism, realism, early revolts against realism.

313 Development of World Theatre III (4)

Significant developments in world dramatic literature and theatre in the 20th century with emphasis on German expressionism, social realism, fascist Europe, absurdism, and contemporary theatre forms and artists.

314 Staging Violence in World Theatre (4)

Prerequisites: Completion of Basic Subjects (Block A) and one course from Block C. Examines representations of violence on stage in various cultures and eras of world theatre from live, graphic violence, to violence beautifully or horribly described. Studies theatre in its social context. **GE Theme B**

322 Theatrical Makeup (3)

Prerequisite: Instructor consent. Basic concepts and skills in makeup for stage, television, and cinema; straight and corrective makeup; old age and character modeling; introduction to facial prosthetics; basic techniques in building facial hair pieces. Laboratory hours required.

323 Intermediate Theatrical Makeup (3)

Prerequisite: TA 322. Concepts and skills of three-dimensional techniques; special effects and fantasy makeup for stage and screen; makeup design; techniques for handling hair and wigs. Additional hours required.

341 Advanced Performance I: Classical Acting (3)

Prerequisites: TA 141–143. Advanced principles and techniques of classical acting. Grounding in textual analysis through initial exposure to Shakespeare and other classical texts in performance. Additional hours required.

342 Advanced Performance II: Scene Study (3)

Prerequisite: TA 341 or instructor approval. Advanced principles and techniques of acting; developing characters through scene study. Additional hours required.

343 Advanced Performance III: Acting Collaboration (3)

Prerequisite: TA 342 or instructor approval. Advanced principles and techniques of acting; analysis and exercises designed to work on acting as collaborating. Additional hours required.

357 Creative Experiences for Health and Wellness (4)

(also listed as ART 357, DANC 357, and MUS 357)

Prerequisites: ART 151 or MUS 150 or 160; DANC 157 or TA 152 or HS 150. Exploring health and wellness through participation in the creative arts - dance, visual arts, music and theatre arts.

380 Emotion in Theatre and Film (4)

(also listed as BCST 380)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block C. Analysis of emotion as motivational force in theatre and film. Emotion as critical factor in performance, narrative development and the essential mediating component compelling audiences to the theatrical/cinematic experience. **GE Theme E**

400-level Courses

All 400-level courses in Theatre Arts (TA) may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: TA 499.

400 Development of Drama Literacy (4)

Prerequisite: Upper division standing. Investigation of perceptual, expressive and cultural components associated with theatre aesthetic phenomena. Lectures, experiential, improvisational techniques and creative drama to develop the imagination and problem-solving skills of the students.

401 Advanced Creative Dramatics (4)

Exploration and application of advanced techniques and concepts of informal drama; special emphasis on European approaches to dramatics; practical experience through selected projects.

402 Children's Theatre Tour (3)

Student participation as actors, designers, stage managers, and drama leaders in touring children's theatre productions; skills gained in working with special populations. Additional hours required. May be repeated to maximum of 16 units.

422 Advanced Theatrical Makeup (3)

Prerequisite: TA 322. Advanced techniques in creation and application of latex, polyurethane, and wax dental prosthetics for stage, television, and cinema; ventilation processes for beard and wig construction; experimental design of stylized nonrealistic makeup. Laboratory hours required.

426 Introduction to Stage Costuming (3)

Prerequisites: Two dramatic literature courses. Basic principles of costume design and construction; historical survey of costumes from ancient to modern times as related to stage costume. Additional hours required.

427 Stage Costume Design (3)

Prerequisite: TA 426. Theory and application of costume design and construction for stage; research methods, principles of design, dramatic analysis, rendering layout, and construction techniques. Additional hours required.

431 Introduction to Stage Scenery (3)

Prerequisites: TAD 131, 132. Theory, practice of scenery design; physical stage, script, director demands; working drawings, models, sketches; perspective rendering. Additional hours required.

432 Stage Scenery Design (3)

Prerequisite: TA 431. Advanced design problems, projects in design of drama, comedy, and musical theatre. Additional hours required.

434 Introduction to Stage Lighting (3)

Prerequisites: TAD 131, 132. Theory and practice of lighting design; functions and properties of light on stage; basic electricity, optics, color; light plots and plans, lighting equipment and its use, control systems. Additional hours required.

435 Stage Lighting Design (3)

Prerequisite: TA 434. Advanced problems in lighting design; projects in conception and execution of designs for the stage. Additional hours required.

441–443 Acting Studio I, II, III (3, 3, 3)

Prerequisites: TA 341–343. Organic approach to the physical and emotional demands of acting. Admission by audition only. Each course may be repeated to maximum of 6 units.

441: Material from the American English Realist tradition.**442: Material from the Early Realist tradition.****443: Material from classical and Musical Theatre.****445 Principles of Directing I (3)**

Prerequisites: Completion of lower division requirements, TAD 339 and 439; or graduate standing. Introduction to the process of directing plays: script analysis, blocking, auditions, casting, design concepts, scheduling and conducting rehearsals, communication techniques for artistic collaboration, and presentation of scenework. Additional hours required.

446 Principles of Directing II (3)

Prerequisites: Completion of lower division requirements, TAD 339, 439, and 445; or graduate standing. Advanced techniques of stage directing; developing of concept, style, and approaches to directing classical, modern, and nonrealistic plays; collaborative approaches working with actors and designers; scene presentations. Additional hours required.

447–449 Acting for Musical Theatre I, II, III (3, 3, 3)

Performance approach to acting demands of musical theatre; characterization through voice, singing, speaking, movement, and scene study. Each course may be repeated once for credit. Suggested sequence: 447, 448, 449; however, none of the three courses is prerequisite to the others.

447: The maturation of the book musical (1940–1967).**448: Beginning to rise of book musical (1940).****449: The contemporary, avant garde (1967–present).****450 Principles of Directing III (3)**

Prerequisite: TA 446. Directing laboratory in which each director selects a one-act play to explore through script analysis and rehearsal, culminating in performance. May be repeated to maximum of 6 units.

454L,P Selected Topics in Theatre Arts (1–4)

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to students in theatre arts as announced in Schedule of Classes.

**459 Hispanic Play Production (3–4)
(also listed as SPAN 459)**

Prerequisite: Intermediate Spanish. Introduction to major forms of Spanish drama; mechanics and production of a major work of Hispanic theatre. May be repeated to total of 12 units, of which maximum of 4 may apply toward major.

460 Studies in Selected Dramatists (1–4)

Prerequisite: Two dramatic literature courses. Intensive study of one or several important dramatists; specific course content varies. May be repeated to maximum of 8 units as subject matter changes.

461 Nature of Dramatic Comedy (4)

Prerequisite: TA 152 or a course in dramatic literature. Theory and techniques of comedy in literature and entertainment arts; emphasis on kinds of comedy in historical perspective.

462 Nature of Dramatic Tragedy (4)

Prerequisite: TA 152. Stage tragedy from ancient Greece to present; major theories and kinds of tragedy, and evolution of tragic hero and heroine.

463 Shakespeare as Living Theatre (4)

Prerequisites: TA 152 or ENGL 222; ENGL 417. History and theories involved in bringing Shakespeare's drama to life on stage. Analysis of major plays in relation to their potential production in contemporary theatre.

464 Contemporary U.S. Theatre (4)

Prerequisites: TA 311, 312, 313. Significant directors, designers, companies, playwrights, and plays in U.S. theatre since the 1960's. Effects of government funding, Civil Rights movement, the international avant garde, and multiculturalism will be examined.

471 Theatre of the Avant-Garde (4)

Prerequisite: TA 152 or ENGL 222. Translation studies in development of avant-garde in French-, German-, and English-speaking theatres. Emphasis on experimental drama as producible, living theatre.

472 History and Analysis of Lyric Theatre (4)

Study and evaluation of lyric theatre from its origin to present; emphasis on development of form and style, analysis of representative works, emergence of American lyric theatre.

475 Dramaturgy (4)

Prerequisites: TA 311, 312, 313; or consent of the instructor. The theory and practice of process, production, and institutional dramaturgy. Practical exercises with directors and playwrights.

476 Play Writing (4)

Prerequisites: At least one upper division course in dramatic literature and instructor consent. Workshop in planning, preparing, and writing manuscripts for stage; emphasis on handling dramatic materials, play structure, characterization, and appropriate dialogue. May be repeated to a maximum of 8 units for credit.

477 Psychodrama (4)

Prerequisites: Twelve units selected from following: TA 301, 231, 238; PSY 308, 412AB, 418AB. Theory and practice of psychodrama and role playing; experience in psychodrama sessions as protagonists, doubles, and auxiliaries; warm-ups, role reversal, soliloquy, and other techniques. May be repeated to maximum of 8 units.

478 Therapeutic and Educational Uses of Drama (4)

Prerequisite: TA 301. Theory and practice of drama as a creative art in education and therapy: theatre games, video, photography, psychodrama, puppets and masks. May be repeated to a maximum of 8 units.

479 Life Scripts (4)

Individual life programming employing drama therapy; effects of family/cultural messages on choices; writing and enactment of scenes revealing life scripts providing alternatives. Additional hours required. May be repeated to maximum of 8 units.

480 Cinema as a Dramatic Art (4)

Comparative analysis of dramatic media, consideration of media as art forms; emphasis on "Great Films" series. May be repeated to a maximum of 8 units with instructor consent.

485 Children's Film (4)

Prerequisite: PSY 412A recommended. Instructional and aesthetic elements in films for preschool to adolescent children; film techniques, audience analysis, and development of a rationale for designating films appropriate for various age levels.

489 Advanced Creative Workshop (2)

Prerequisite: All lower and upper division courses completed or permission by instructor. Active participation in student-generated, University-sponsored dramatic activities. Assignments may include acting, directing assistance, playwriting, lighting, scenery, costuming, props, choreography, and house management. May be repeated to 6 units.

499 Undergraduate Directed Study (1-4)

Prerequisite: Consent of an instructor to act as sponsor. Project selected in conference with sponsor prior to registration; progress meetings held regularly and final report submitted. May be repeated to a maximum of 12 units for credit.

Courses in Theatre Arts and Dance (TAD)

Lower Division Courses

101 Introduction to Theatre Arts and Dance (1)

Introduction to the fundamentals of performance training in theatre arts and dance in the university. Portfolio preparation. Additional hours required.

131 Stagecraft I (3)

Technical theatre and dance practices developed in lectures, demonstrations, and workshop experience; basic tools and techniques of scenery construction; reading technical drawings; technical theatre procedures and organization. Additional hours required. CAN DRAM 12

132 Stagecraft II (3)

Technical theatre and dance practices developed in lectures, demonstrations, and workshop experience; stage properties, drafting techniques, basic stage lighting, and sound effects. Additional hours required.

133 Stagecraft III (3)

Introduction to basic materials, tools, construction techniques, costume paint and dye techniques, and wardrobe plotting used in costuming for the performing arts. Lecture 2 hours, laboratory 3 hours. Additional hours required.

149 Breath, Movement, Voice I (3)

Fundamentals of vocal training for the performer with an emphasis on effective breathing techniques. Yoga, centering and alignment; awareness of and development of correct vocal production and placement; physical exercise. CAN DRAM 6.

316 Theatre and Dance in 20th Century Urban Contexts (4)

Prerequisites: Completion of Basic Subject (Block A) and one course from Block C. Examines prominent 20th century dance and theatre artists, companies and venues in the context of their urban environments. Field work in Los Angeles includes visiting artists and attending local performances. **GE Theme D**

339 Stage Management (3)

Prerequisites: TAD 132-133 or equivalent. Assembling prompt book, blocking and movement notation, and organization and communication procedures; application to production; detailing the process from preproduction and rehearsals through performance to post production. Additional hours required.

348 Breath, Movement, Voice II (3)

Prerequisite: TAD 149 or instructor consent. Development of movement as well as techniques in physicalization, composition and evaluation will be investigated. May be repeated to 9 units.

349 Breath, Movement, Voice III (3)

Prerequisite: TAD 149, TAD 348 or instructor consent. Voice, diction, and dialect training for the stage. Development of natural and responsive voice production and the technique of diction and dialects appropriate to the demands of performance.

390 Performance Research and Writing (4)

Prerequisite: Satisfactory completion of the Graduation Writing Assessment Requirement (GWAR). Advanced research and writing practice with emphasis on critical and mechanical skills appropriate for theatre arts and dance majors.

439 Arts Management (4)

Prerequisites: Completion of lower division requirements, TAD 339; or graduate standing. Historical evolution, theory development and practice of arts administration and theatre management. Additional hours required.

**467 Theory and Method in Performance Studies (4)
(also listed as SPCH 467)**

Prerequisite: Upper division course in SPCH, TA or DANC. Introduction to major theoretical perspectives in performance studies and to key methodologies for investigating performance in/as culture. Central concepts include social drama and performance ethnography.

**468 Performance and Social Change (4)
(also listed as SPCH 468)**

Prerequisite: SPCH 367 or 467 or upper division theory course in TA, DANC or rhetoric. Aesthetic, pedagogical underpinnings of performance and social change. Relationship between performance and liberation in avant-garde works and across cultures. Theoretical and pragmatic concerns as these emerge in production.

486 Cross Cultural Approaches to Social Performance (3)

Prerequisites: TAD 467, 468. Crosscultural applications of improvisation experimental performance and playback techniques in the development of social action activities in community and educational setting. Fulfills community performance practicum requirement.

Graduate Level Courses in Theatre Arts (TA)

All 400-level courses in Theatre Arts (TA) may be applied toward master's degree requirements except the following, subject to limits established by the department and approval of the graduate adviser: TA 499.

Classified graduate standing is required for admission to all 500-level courses.

511 Seminar: Special Studies in Theatre History (4)

Prerequisites: TA 311–313. Significant era or movement in theatre history. Specific subject announced in *Schedule of Classes*. May be repeated to a maximum of 8 units for credit.

541 Seminar: Theories of Acting (4)

Prerequisite: At least one upper division course in acting or directing. Major theories of acting from Diderot to present with special emphasis on origins, esthetics, and psychology of acting.

566 Seminar: Dramatic Theory (4)

Prerequisite: At least one upper division course in dramatic theory or dramatic literature. Backgrounds in theatrical art, analysis of aesthetic principles and content of theatre; selected problems in philosophy of dramatic art.

570 Seminar: Experimental Theatre (4)

Prerequisites: TA 471 plus an upper division course in dramatic literature and/or dramatic theory. Significant theatrical and dramatic theories and developments that have contributed specifically to experimental search for 20th century forms in theatre arts.

572 Seminar: Research in Dance Literature (3)

Research in dance literature; survey of scope of writings in various areas of dance and creative movement; emphasis on current publications. Individual research projects.

577 Seminar: Drama Therapy Techniques (4)

Prerequisite: TA 478. Advanced psychodramatic and projective drama therapy techniques exploring video, photography, puppetry, face painting, sand play, masks, and other creative media. May be repeated to maximum of 8 units.

578 Seminar: Drama Therapy Assessment and Treatment (4)

Theories of drama therapy, research, assessment, diagnosis, and treatment interventions. May be repeated to maximum of 8 units.

579 Seminar: Case Studies in Drama Therapy (4)

Prerequisites: TA 478, 479. Advanced theories and techniques of drama therapy applied to individual casework. May be repeated to maximum of 8 units.

594 Field Work/Internship Drama Therapy (1-4)

Prerequisite: TA 478. Independent supervised field experience in drama therapy internships with individuals, groups, and families. May be repeated to maximum of 16 units.

595 Graduate Performance (1–4)

Prerequisite: Consent of graduate adviser. Demonstration of graduate level proficiency in a major performance situation; research or analytical written project directly related to performance. May be repeated to maximum of 4 units.

598 Graduate Directed Study (1–4)

Prerequisite: Instructor consent to act as sponsor. Independent study of advanced topics in field; regular conferences with sponsor. May be repeated to a maximum of 12 units for credit.

599 Thesis or Project (1–6)

Prerequisites: Advancement to candidacy, instructor consent to act as sponsor, departmental approval of topic prior to registration. Independent research resulting in a thesis or project. May be repeated to maximum of 6 units. Graded CR/NC.

Program in

Youth Agency Administration

American Humanics, Inc. (AH)

PROGRAM OFFICE

Physical Education 237

Phone: (323) 343-4580

Fax: (323) 343-4622

E-mail: jkallus@calstatela.edu

Website: www.humanics.org/

American Humanics, Inc. (AH), founded in 1948 as a nonprofit program dedicated to developing professional leadership for the nation's youth-serving agencies, has established programs in selected colleges and universities throughout the U.S. The primary objective is to present a program that prepares professionals for careers with youth and human service agencies such as Boy Scouts, Girl Scouts, United Way, Boys and Girls Clubs, American Red Cross, 4-H, YMCA, YWCA, and others.

AH at Cal State L.A. provides a unique opportunity for students interested in nonprofit administration careers to receive a specific, practical, educational emphasis. In addition to the course work and internship required for completion of the Youth Agency Administration certificate program (listed below), the program affords participants many other services and opportunities. Among these are the AH Student Association, national conferences and seminars, personal counseling, career placement, an annual retreat, and a student loan and scholarship program.

The Faculty

Program Director: James P. Kallusky, Ed.D.

The faculty for the American Humanics program is interdisciplinary in nature, representing the various departments whose courses comprise the certificate program offered. The program is coordinated by the American Humanics program director.

Undergraduate Programs

Certificate Program in Youth Agency Administration

This credit certificate program, which is intended to prepare professionals for careers in nonprofit administration, requires a minimum of 36 units, selected in consultation with the American Humanics director. The program includes course work in seven major areas and an internship designed specifically for the program. In addition to the requirements listed below, students who have not taken CHS 111, PAS 101, or SOCS 180 as part of their general education program must complete SOC 460.

Students should plan their program with careful attention given to prerequisites for upper division courses. Refer to the **Undergraduate Study: General Information** chapter of this catalog for general regulations governing all certificate programs.

Requirements for the Certificate (Minimum 36 units)

Accounting and Budgeting (4 units)

Select 4 units from the following:

ACCT 202 Survey of Accounting (4)

POLS 466 Public Financial Administration (4)

Community Organization (4 units)

Select 4 units from the following:

CRIM 304 Interface Between Criminal Justice and Community (4)

PSY 445 Community Psychology (4)

SW 482 Social Work Practice IV: Community Organization (4)

Counseling and Group Work (4 units)

Select 4 units from the following:

COUN 406 Behavioral Counseling and Self-Management (4)

SOC 420 Small Groups (4)

SW 461 Social Work Practice in Minority Communities (4)

SW 475 Social Work Practice III: Working with Groups (4)

Personnel Management (4 units)

Select 4 units from the following:

MGMT 473 Personnel Management (4)

POLS 463 Public Personnel Administration (4)

POLS 472 Organization and Management (4)

PSY 446 Employment and Personnel Psychology (4)

Public Relations and Communication (4 units)

Select 4 units from the following:

SPCH 396 Publicity and Promotions (4)

POLS 470 Public Relations in Government (4)

SOC 424 Mass Communications and Public Opinion (4)

SPCH 430 Organizational and Professional Communications (4)

SPCH 489 Intercultural Communication (4)

Youth Agency Administration (8 units)

SW 476 Child Welfare (4)

YAA 290 Introduction to Youth Agency Administration (4)

Fund Raising (4 units)

YAA 490 Volunteer Management and Fund Raising (4)

Internship (4–6 units)

YAA 495 Directed Field Experience (4–6)

Elective (0–4 units)

YAA 499 Undergraduate Directed Study (0–4)

List of Courses (YAA) - Undergraduate Level

Lower Division Course

290 Introduction to Youth Agency Administration (4)

History, philosophy, programs, and organization of the major national voluntary youth service agencies from a professional management perspective; role of the professional executive; the nature of volunteerism. Required field visits.

Upper Division Courses

467 The Third Sector and Nonprofit Organizations (4) (also listed as POLS 467)

Starting and managing nonprofit enterprises; differences between public, nonprofit, and for-profit organizations; nature and scope of the third sector; grant writing project.

490 Volunteer Management and Fund-Raising (4)

Prerequisite: YAA 290. Development of executive skills in managing volunteers and raising funds for youth-serving agencies; sources and techniques of financial development for community agencies; management of voluntary staff and directorial boards.

495 Directed Field Experience (4–6)

Prerequisites: YAA 290, instructor consent, agency acceptance. Student placement to provide experience under supervision in a youth agency; individual evaluative conferences. Graded *CR/NC*.

499 Undergraduate Directed Study (1–4)

Prerequisites: YAA 290, upper division standing, consent of a faculty sponsor, approval of program coordinator, approval of proposed project prior to registration, ability to assume responsibility for independent research and analysis. Project selected in conference with sponsor; progress meetings held regularly and a final report submitted. May be repeated to maximum of 4 units.

Full-time Tenure-track Faculty

Listings corrected to July 1, 1999. Year in parentheses indicates year of appointment as a full-time tenure-track faculty member.

- Russell J. Abbott (1987)** **Professor of Computer Science**
B.A., 1962, Columbia University; M.A., 1963, Harvard University; Ph.D., 1973, University of Southern California
- Adnan M. Abdeen (1986)** **Professor of Accounting**
B.S., 1963, M.B.A., 1965, University of Southern Mississippi; D.B.A., 1974, Mississippi State University
- Kodzo O. Abledu (1985)** **Professor of Electrical Engineering**
B.Sc., 1976, University of Science and Technology, Ghana; M.Sc., 1979, University of British Columbia; Ph.D., 1983, Iowa State University; Registered Professional Electrical Engineer, 1992, California
- Raquel Ackerman (1987)** **Associate Professor of Anthropology**
B.A., 1976, Barnard College, Columbia University; Ph.D., 1986, Kings' College, University of Cambridge, U.K.
- Laura Chey Acuña (1990)** **Associate Professor of Broadcasting**
B.A., 1978, California State College, Long Beach; M.F.A., 1986, University of California, Los Angeles
- T. Jean Adenika-Morrow (1992)** **Professor of Education**
B.A., 1966, San Francisco State University; M.S., 1968, Ph.D., 1972, Florida State University
- Manuel Aguilar-Moreno (1999)** **Assistant Professor of Art**
Title of Electronic Engineering, 1983, Diploma in Education, 1994, Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico; Diploma in History of Mexico, 1995, Colegio de Jalisco, Mexico; M.A., 1997, University of Texas, Austin.
- Abdallah M. Aish (1966)** **Professor of Management**
B.B.A., 1954, Ein-Shams University, Egypt; M.B.A., 1961, Columbia University; Ph.D., 1969, University of California, Los Angeles
- Vladimir N. Akis (1982)** **Associate Professor of Mathematics and Computer Science**
B.A., 1976, California State University, Sacramento; M.A., 1977, University of California, Berkeley; Ph.D., 1982, University of California, Davis
- Mohammad Ala (1985)** **Professor of Management**
B.S., 1976, Tehran College of Insurance, Iran; M.B.A., 1978, Emporia State University; D.B.A., 1983, Louisiana Tech University
- Kathryn L. Alesandrini (1984)** **Professor of Education**
B.A., 1970, Ed.M., 1971, University of Illinois; Ph.D., 1979, University of California, Los Angeles
- Bryant Alexander (1998)** **Assistant Professor of Speech Communication**
B.A., 1985, M.S., 1987, University of Southwestern Louisiana; Ph.D., 1998, Southern Illinois University
- Radi A. Al-Jishi (1986)** **Professor of Physics**
B.S., 1975, American University of Beirut, Lebanon; Ph.D., 1982, Massachusetts Institute of Technology
- Janicemarie Allard (1970)** **Professor of Sociology**
B.A., 1966, M.A., 1968, Ph.D., 1973, University of California, Los Angeles
- Wayne Paul Alley (1969)** **Professor of Biology**
B.A., 1961, University of California, Berkeley; M.S., 1964, San Diego State College; Ph.D., 1968, University of Michigan
- John M. Allswang (1968)** **Professor of History**
A.B., 1959, University of Illinois; M.A., 1960, University of Iowa; Ph.D., 1967, University of Pittsburgh
- Burton L. Alperson (1974)** **Professor of Psychology**
B.A., 1962, Baldwin-Wallace College; M.A., 1964, Ph.D., 1967, Michigan State University
- Joanne Altschuler (1995)** **Assistant Professor of Social Work**
A.B., 1971, Indiana University; M.A., 1975, Hebrew Union College; M.A., 1975, Ph.D., 1994, University of Southern California
- J. Theodore Anagnoson (1983)** **Professor of Political Science**
B.A., 1965, Lehigh University; M.A., 1969, American University; M.A., 1975, Ph.D., 1977, University of Rochester
- E. Frederick Anderson (1991)** **Chair and Professor of Social Work**
B.A., 1965, California State University, Los Angeles; M.S.W., 1967, San Diego State University; Ph.D., 1976, University of Southern California; L.C.S.W., 1969, M.F.C.C., 1969, California
- Gary Anderson (1998)** **Professor of Education**
B.A., 1971, University of Iowa; M.A., 1981, Teachers College, Columbia University; Ph.D., 1988, Ohio State University
- Kenneth L. Anderson (1970)** **Associate Professor of Microbiology**
B.S., 1963, Iowa State University; M.S., 1965, University of Iowa; Ph.D., 1968, University of Utah
- Richard Anderson-Connolly (1999)** **Assistant Professor of Sociology**
B.A., 1990, University of Puget Sound; M.S. (Sociology), 1993, M.S. (Economics), 1993; Ph.D., 1997, University of Wisconsin-Madison.
- Gregory D. Andranovich (1993)** **Associate Professor of Political Science**
B.A., 1978, Clinch Valley College; M.A., 1980, George Mason University; Ph.D., 1984, University of California, Riverside
- Gretchen Angelo (1995)** **Assistant Professor of French and Spanish**
B.A., 1987, State University of New York at Buffalo; Ph.D., 1994, Yale University
- Konrad A. Aniol (1984)** **Chair and Professor of Physics**
B.S., 1970, University of Illinois; M.S., 1973, McMaster University, Canada; Ph.D., 1977, Australian National University
- Rene Aravena (1994)** **Assistant Professor of Music**
B.A., 1982, Whitman College; M.M., 1985, University of Nevada, Las Vegas
- Ralph Arroyo (1978)** **Professor of Education**
B.A., 1970, California State College, Los Angeles; M.S., 1972, Ph.D., 1978, University of Southern California
- Paula Arvedson (1999)** **Assistant Professor of Education**
B.A., 1982, M.A., 1984, California State University, Los Angeles; Ph.D., 1999, University of California, Los Angeles
- Mohammad Auwal (1994)** **Assistant Professor of Speech Communication**
B.A., 1981, Jahangirnagar University, Bangladesh; M.A., 1991, Ph.D., 1994, Ohio University
- Robin Avelar-La Salle (1998)** **Assistant Professor of Education**
B.A., 1982, M.A., 1984, California State University, Los Angeles; Ph.D., 1991, Stanford University
- Mohammad B. Ayati (1982)** **Professor of Information Systems**
B.S., 1966, University of Tehran, Iran; M.S., 1975, Ph.D., 1980, University of California, Los Angeles
- Kevin Baaske (1988)** **Associate Professor of Speech Communication**
B.A., 1976, M.A., 1978, University of Wisconsin-Milwaukee; Ph.D., 1989, University of Southern California
- Chunsheng Bai (1998)** **Assistant Professor of Speech Communication**
B.A., 1984, Tianjin Foreign Language Institute, People's Republic of China; M.A., 1988, State University of New York, Albany; Ph.D., 1998, University of Southern California

- William G. Baker (1972)** **Professor of Management**
B.A., 1967, Washington University; M.S., 1969, Ph.D., 1970, University of Oklahoma
- Mark Balaguer (1992)** **Associate Professor of Philosophy**
B.A., B.S., 1986, University of Colorado; Ph.D., 1992, City University of New York
- Marlohn Balas (1965)** **Professor of Nursing**
B.S., 1960, Columbia Union College; M.S., 1965, Loma Linda University; R.N., 1961, California
- Francisco E. Balderrama (1984)** **Professor of Chicano Studies and History**
B.A., 1970, Loyola University of Los Angeles; M.A., 1972, Ph.D., 1978, University of California, Los Angeles
- Betty Bamberg (1996)** **Professor of English**
B.A., 1960, Ph.D., 1976, University of California, Los Angeles; MAT, 1961, Radcliffe College
- Ann Barbour (1998)** **Associate Professor of Education**
B.A., 1969, Mills College; M.Ed., 1971, Tufts University; Ph.D., 1993, University of Texas
- Butrus G. Basmaji (1969)** **Professor of Mathematics**
B.S., 1963, M.S., 1964, American University of Beirut, Lebanon; Ph.D., 1968, University of Maryland
- Deborah R. Baskin (1995)** **Chair and Professor of Criminal Justice**
B.A., 1975, State University of New York-Buffalo; M.S., 1976, Northeastern University; Ph.D., 1984, University of Pennsylvania
- Sharon Bassett (1967)** **Professor of English**
B.A., 1964, Elmira College; M.A., 1967, Ph.D., 1971, University of Rochester
- Linda Beamer (1991)** **Professor of Marketing**
B.A., 1967, College of Wooster; M.A., 1969, Ph.D., 1973, University of Toronto, Canada
- Gerald Beer (1971)** **Professor of Mathematics**
B.A., 1967, University of California, Santa Barbara; M.A., 1969, Ph.D., 1971, University of California, Los Angeles
- William Belan (1982)** **Professor of Music**
B.M., 1972, University of California, Los Angeles; M.M., 1975, University of Tulsa; D.M.A., 1984, University of Oklahoma
- Jim R. Bell (1990)** **Associate Professor of Anthropology**
B.A., 1974, M.A., 1977, California State College, Los Angeles; Ph.D., 1987, University of California, Santa Barbara
- Theodore S. Bell (1998)** **Professor of Communication Disorders**
B.M., 1977, M.A., 1981, Ph.D., 1986, University of California, Los Angeles
- Beryl L. Bellman (1989)** **Professor of Speech Communication**
B.A., 1964, M.A., 1966, University of California, Los Angeles; Ph.D., 1971, University of California, Irvine
- Alfred Bendixen (1988)** **Chair and Professor of English**
B.A., 1973, State University of New York at Binghamton; M.A., 1974, Ph.D., 1979, University of North Carolina at Chapel Hill
- Jeffrey W. Benedict (1989)** **Associate Professor of Music**
B.Mus., 1980, M.A., 1982, University of Denver; D.M.A., 1992, University of Texas, Austin
- Bernard B. Berk (1973)** **Associate Professor of Sociology**
B.A., 1956, University of California, Los Angeles; M.A., 1957, Ph.D., 1961, University of Michigan
- Blair J. Berkley (1995)** **Associate Professor of Management**
B.S., 1979, Ohio State University; M.B.A., 1980, M.A., 1985, University of Arizona; Ph.D., 1988, University of Southern California
- Oscar O. Bernal (1994)** **Assistant Professor of Physics**
B.S., 1986, Universidad Nacional de Colombia, Bogota; M.S., 1989, California State University, Los Angeles; Ph.D., 1994, University of California, Riverside
- Enrique Berumen (1997)** **Assistant Professor of Speech Communication**
B.A., 1988, University of California, Santa Cruz; M.F.A., 1991, University of Southern California
- Gary A. Best (1968)** **Professor of Education**
B.A., 1961, Los Angeles State College; M.A., 1965, California State College, Los Angeles; Ph.D., 1968, University of Minnesota
- Sherwood Best (1993)** **Associate Professor of Education**
B.A., 1973, Pitzer College; M.A., 1980, California State University, Los Angeles; Ph.D., 1995, University of California, Riverside
- Shirley Jean Better (1969)** **Professor of Social Work**
B.A., 1956, University of Illinois; M.S.W., 1958, University of Michigan; D.S.W., 1987, University of California, Los Angeles
- Anjan K. Bhaumik (1966)** **Professor of Civil Engineering**
B.E., 1961, Calcutta University, India; M.S., 1963, Ph.D., 1966, University of Minnesota
- Jens D. Biermeier (1985)** **Professor of Marketing**
B.S., 1974, Fachhochschule of Cologne, Germany; M.B.A., 1977, Ph.D., 1982, University of Essen, Germany
- Beverly R. Bigler (1973)** **Professor of Nursing**
B.S., 1965, California State College, Los Angeles; M.S., 1973, University of California, San Francisco; Ed.D., 1988, Nova University; R.N., 1960, California; National Pediatric Nurse Practitioner Certification, 1979
- Ann M. Bingham-Newman (1974)** **Professor of Education**
B.S., 1965, M.S., 1971, Ph.D., 1974, University of Wisconsin; M.A., 1980, California Family Study Center; Licensed Marriage, Family, and Child Counselor, 1984, California
- Loretta Birkhead (1987)** **Professor of Nursing**
B.S., 1968, University of Richmond; B.S., 1971, M.S., 1973, Medical College of Virginia; Ed.D., 1978, Boston University; R.N., P.H.N., 1978, California
- Kim M. Bishop (1993)** ... **Assistant Professor of Geological Sciences**
B.S., 1979, University of California, Los Angeles; M.S. 1985, California State University, Northridge; Ph.D., 1994, University of Southern California
- Sharon Bishop (1967)** **Chair and Professor of Philosophy**
B.A., 1961, Macalester College; A.M., 1966, Ph.D., 1968, Harvard University
- Wayne W. Bishop (1971)** **Professor of Mathematics**
B.A., 1964, University of Northern Iowa; M.A., 1967, Northwestern University; Ph.D., 1971, Western Michigan University
- John M. Blackburn (1981)** **Associate Professor of Business Law and Real Estate**
B.A., 1953, East Texas State Teachers College; J.D., 1976, Southeastern University School of Law; Admitted to the Bar, 1977, California
- Carol Blaszczyński (1997)** **Assistant Professor of Management**
B.S., 1978, M.A., 1982, California State University, Los Angeles; Ph.D., 1997, Claremont Graduate School
- Alan J. Bloom (1981)** **Professor of Broadcasting**
B.A., 1973, Sonoma State College; M.F.A., 1975, California College of Arts and Crafts
- Cristina Bodinger-de Uriarte (1994)** **Associate Professor of Sociology**
B.A., 1978, Yale University; Ph.D., 1989, Harvard University
- James A. Bolton (1969)** **Professor of Education**
B.A., 1954, Langston University; M.A., 1970, Atlanta University; Ph.D., 1972, Claremont Graduate School
- Maria Kathleen Boss (1988)** **Professor of Business Law**
B.A., 1965, University of California, Davis; J.D., 1974, University of California, Hastings College of Law; Admitted to the Bar, 1974, California
- James D. Boulgarides (1977)** **Professor of Marketing**
B.S., 1951, Columbia University; B.S., 1953, Cooper Union; M.E.A., 1966, University of Utah; D.B.A., 1973, University of Southern California

638 / Full-time Tenure-track Faculty

Roger R. Bowers (1972).....**Professor of Biology**
B.S., 1966, Creighton University; M.S., 1968, Ph.D., 1971, University of Nebraska

Scott Bowman (1997)..... **Assistant Professor of Political Science**
B.A., 1971, University of California, Berkeley; M.A., 1974, Ph.D., 1989, University of California, Los Angeles

Barbara Ann Boyer (1989).....**Professor of Art**
B.S., 1958, State University of New York, College at Buffalo; M.A., 1968, California State College, San Jose; Ph.D., 1980, University of Oregon

James Brady (1998) **Assistant Professor of Anthropology**
B.A., 1970, University of California, Berkeley; M.A., 1974, California State College, Los Angeles; Ph.D., 1989, University of California, Los Angeles

Joseph Bragin (1970).....**Associate Dean, School of Natural and Social Sciences, and Professor of Chemistry**
B.S., 1959, Brooklyn College; Ph.D., 1967, University of Wisconsin, Madison

Dwan M. Bridges (1992)..... **Associate Professor of Kinesiology and Physical Education**
B.S., 1975, M.Ed., 1976, Louisiana State University; M.S., 1984, Loyola University, Louisiana; Ph.D., 1992, Ohio State University

Martin G. Brodwin (1988)**Professor of Education**
B.A., 1966, University of California, Los Angeles; M.S., 1969, California State College, Los Angeles; Ph.D., 1973, Michigan State University

Costello L. Brown (1969)..... **Associate Dean of Graduate Studies and Research and Professor of Chemistry**
B.A., 1963, Hampton Institute; M.S., 1966, Ph.D., 1968, Iowa State University

Karin A. Elliot Brown (1998)..... **Associate Professor of Social Work**
B.S.W., 1984, Cornell University; M.S.W., 1986; M.A., 1988, Ph.D., 1990, University of Michigan

Elizabeth R. Bryant (1990).....**Associate Professor of Art**
B.F.A., 1973, Moore College of Art; M.F.A., 1980, University of Florida

Marilyn Buccellati (1973).....**Professor of Art**
B.A., 1961, College of St. Elizabeth; M.A., 1967, Ph.D., 1974, University of Chicago

David A. Buck (1976).....**Professor of Music**
B.M., 1966, University of the Pacific; M.M., 1968, D.M.A., 1970, University of Washington

Stanley M. Burstein (1968).....**Professor of History**
A.B., 1963, M.A., 1965, Ph.D., 1972, University of California, Los Angeles

Mary E. Bush (1993)..... **Associate Professor of English**
B.A., 1972, State University of New York at Buffalo; M.A., 1980, D.A., 1984, Syracuse University

John Butler (1988).....**Professor of Art**
B.A., 1970, M.A., 1972, California State College, Los Angeles; M.F.A., 1979, University of California, Los Angeles

Fary M. Cachelin (1997)..... **Assistant Professor of Psychology**
B.A., 1988, Stanford University; M.A., 1992, Ph.D., 1996, Harvard University

Herminia G. Cadenas (1990)**Associate Professor of Education**
B.A., 1966, M.A., 1967, California State College, Los Angeles; Ph.D., 1987, University of California, Irvine

H. David Caffey (1984)**Chair and Professor of Music**
B.M., 1972, M.M., 1974, University of Texas

Naomi Joy Caiden (1993) **Professor of Political Science**
B.S., 1959, University of London; M.A., 1966, Australian National University (Canberra); Ph.D., 1978, University of Southern California

Randy Marion Caine (1998)..... **Professor of Nursing**
B.S.N., 1969, University of Miami; M.S., 1973, Hunter College of the City University of New York; Ph.D., 1989, Pepperdine University

Michael A. Calabrese (1994).....**Associate Professor of English**
B.A., 1983, Columbia University; M.A., 1986, Ph.D., 1991, University of Virginia

Laura Calderon (1993).....**Assistant Professor of Nutritional Science**
B.A., 1972, M.A., 1982, California State University, Los Angeles; Ph.D., 1992, Loma Linda University

Evelyn Ruiz Calvillo (1990)..... **Professor of Nursing**
B.S., 1983, University of Texas at Galveston; M.S., 1986, Loma Linda University; D.N.Sc., 1991, University of California, Los Angeles; R.N., Texas, 1964, California, 1984

Bruce L. Campbell (1977) **Associate Professor of Education**
B.S., 1966, M.S., 1967, Brigham Young University; Ph.D., 1972, University of Minnesota; M.A., 1981, Azusa Pacific College; Licensed Marriage, Family, and Child Counselor, 1989, California

Randy V. Campbell (1991) **Professor of Education**
B.A., 1976, B.S., 1976, University of the Pacific; M.S., 1981, Rh.D., 1988, Southern Illinois University at Carbondale

Giorgio Canarella (1973).....**Professor of Economics and Statistics**
Laurea in Economia, 1966, University of Milan, Italy; Ph.D., 1973, University of Virginia

Roberto Cantú (1976).....**Professor of Chicano Studies and English**
B.A., 1968, M.A., 1970, California State College, San Diego; Ph.D., 1982, University of California, Los Angeles

Sandra E. Card (1989) **Associate Librarian, Collection Services**
B.A., 1969, M.L.S., 1978, C. Phil., 1975, University of California, Los Angeles

Desdemona Cardoza (1988) **Vice President for Information Resources Management and Professor of Psychology**
B.A., 1975, University of California, Berkeley; M.A., 1979, Ph.D., 1982, University of California, Riverside

Elizabeth D. Cardoso (1999)..... **Assistant Professor of Education**
B.A., 1990, Caldwell College; M.Ed., 1992, M.A., 1992, Columbia University; Ph.D., 1997, University of Wisconsin, Madison.

Robert H. Carr (1964) **Professor of Physics**
B.A., 1957, Cornell University; Ph.D., 1963, Iowa State University

Samantha Carrington (1986) **Associate Professor of Economics and Statistics**
B.A., 1974, National University of Iran; M.A., 1981, Ph.D., 1985, University of California, Santa Barbara

Michael J. Carter (1990)..... **Associate Professor of Education**
B.A., 1979, University of California, Los Angeles; M.A., 1982, California State University, Northridge; MFCC, 1984, Ph.D., 1993, University of California, Los Angeles

Barbara S. Case (1973)**Librarian, User Services**
B.A., 1969, M.L.S., 1970, University of California, Berkeley

Susan B. Cash (1991)**Associate Professor of Art**
B.A., 1980, California State University, Fullerton; M.F.A., 1982, University of California, Irvine

Marshall L. Cates (1971)**Professor of Mathematics**
B.A., 1965, Washington State University; A.M., 1967, Ph.D., 1971, University of Illinois

Paul L. Chabot (1970).....**Professor of Mathematics**
B.S., 1965, Boston College; Ph.D., 1969, University of Notre Dame

Derek K. Chang (1983)**Professor of Mathematics**
M.S., 1978, Ph.D., 1983, University of California, Riverside

Jack S. K. Chang (1985)..... **Professor of Finance**
B. Eng., 1972, National Taiwan University, Taiwan; M. Eng., 1975, University of Toronto; M.B.A., 1979, Ph.D., 1983, University of Houston

Lena Chao (1993)..... **Assistant Professor of Speech Communication**
B.A., 1978, University of California, Los Angeles; M.A., 1983, Ph.D., 1991, University of Southern California

Hema Chari (1992)**Associate Professor of English**
M.A., 1988, Ph.D. 1992, University of Southern California

Choi Chatterjee (1994) **Assistant Professor of History**
B.A., 1984, M.A., 1989, University of Calcutta, India; Ph.D., 1994, Indiana University

- Anna Chee (1998)**..... **Assistant Professor of Education**
B.A., 1986, California State University, Los Angeles; M.S., 1995, University of Southern California
- Li-Hsueh Chen (1998)**.....**Assistant Professor of Economics and Statistics**
B.A., 1992, National Taiwan University; M.A., 1995, Ph.D., 1998, University of Michigan
- Patricia A. Chin**..... **Associate Professor of Nursing**
B.S.N., 1979, M.S.N., 1984, California State University, Los Angeles; D.N.S., 1992, University of San Diego
- Philip C. Chinn (1988)**.....**Professor of Education**
B.A., 1959, Baylor University; M.A., 1963, Ed.D., 1967, University of Northern Colorado
- Mikyung Mika Cho (1991)**.....**Associate Professor of Art**
B.F.A., 1982, M.F.A., 1984, Sook Myung Women's University, Korea; M.A., 1988, Ph.D., 1992, Illinois State University
- Joseph A. Chrzanowski (1969)**..... **Chair, Department of Modern Languages and Literatures, and Professor of Spanish**
A.B., 1966, Fairfield University; M.A., 1967, Ph.D., 1971, Pennsylvania State University
- Doris A. Christopher (1990)**..... **Chair and Professor of Information System**
B.S., 1976, University of the Ozarks; M.Ed., 1981, Ed.D., 1989, University of Arkansas
- Barbara J. Clark (1968)**.....**Professor of Education**
A.B., 1955, Wichita State University; M.A., 1966, Ed.D., 1969, University of California, Los Angeles
- Margaret Clark (1999)**..... **Assistant Professor of Education**
B.A., 1980, M.A., 1983, California State University, Los Angeles; Ph.D., 1998, University of California, Los Angeles/California State University, Los Angeles.
- John L. Cleman (1971)**..... **Professor of English**
A.B., 1965, Stanford University; M.A., 1967, Washington State University; Ph.D., 1973, University of Wisconsin
- Nancy Cobb (1965)**.....**Professor of Psychology**
B.A., 1961, College of William and Mary; M.A., 1963, Ph.D., 1965, University of Massachusetts
- Bernard Codner (1955)**.....**Professor of Marketing**
B.S., 1949, City College of New York; M.S., 1950, Columbia University
- Harold L. Cohen (1969)**..... **Professor of Physics**
B.A., 1959, M.S., 1962, Ph.D., 1968, Rutgers University
- Neil A. Cohen (1976)**..... **Professor of Social Work**
B.A., 1961, University of California, Los Angeles; M.S.W., 1966, University of California, Berkeley; Ph.D., 1974, Case Western Reserve University
- William A. Cohen (1979)**.....**Professor of Marketing**
B.S., 1959, United States Military Academy; M.B.A., 1967, University of Chicago; M.A., 1978, Ph.D., 1978, Claremont Graduate School
- Charles C. Coleman (1968)**..... **Professor of Physics**
B.A., 1959, M.A., 1961, Ph.D., 1968, University of California, Los Angeles
- Joanne A. Collins (1982)**..... **Professor of Accounting**
B.S., 1968, M.B.A., 1970, Illinois Institute of Technology; Ph.D., 1976, Northwestern University; C.P.A., 1976, Illinois; C.M.A., 1981, California
- Kathryn L. Combs (1986)**..... **Associate Professor of Economics and Statistics**
B.A., 1978, Washington State University; M.A., 1985, Ph.D., 1988, University of Minnesota
- David N. Connors (1990)**.....**Associate Professor of Music**
B.Mus., B.M.E., 1980, Bradley University; M.M., 1988, D.M.E., 1995, University of Cincinnati
- Mary Conroy (1969)**..... **Professor of Kinesiology and Physical Education**
B.A., 1964, University of Arizona; M.A., 1965, Ed.D., 1972, Columbia University
- Judith L. Cope (1987)**..... **Associate Professor of Education**
B.A., 1961, M.Ed., 1968, Indiana University of Pennsylvania; Ph.D., 1981, University of Pittsburgh
- William P. Cordeiro (1990)**..... **Associate Professor of Management**
B.S., 1966, University of San Francisco; M.B.A., 1969, University of Southern California; M.A., 1983, Ph.D., 1986, Claremont Graduate School
- Elizabeth D. Cordoso (1999)**..... **Assistant Professor of Education**
B.A., 1990, Caldwell College; M.Ed., 1992, Columbia University; M.A., 1992, Columbia University; Ph.D., 1997, University of Wisconsin-Madison
- Andrew Cornwell (1997)**.....**Assistant Professor of Kinesiology and Physical Education**
B.S., 1983, Portsmouth Polytechnic, England; M.S., 1987, Southampton University, England; M.S., 1992, Colorado State University; Ph.D., 1997, Louisiana State University
- Maria Dolores Costa (1992)**.....**Associate Professor of Spanish**
B.A., 1985, M.A., 1987, Kent State University; Ph.D., 1992, University of Massachusetts
- Kathleen M. Costantini (1967)**..... **Associate Professor of Education**
B.A., 1963, M.S., 1967, University of Southern California
- Susan B. Coutin (1998)**.....**Assistant Professor of Criminal Justice**
B.A., 1983, University of California, Berkeley; M.A., 1985, Ph.D., 1990, Stanford University
- Alan N. Crawford (1969)**..... **Professor of Education**
A.B., 1963, Occidental College; M.A., 1967, California State College, Los Angeles; Ed.D., 1970, University of California, Los Angeles
- Daniel Crecelius (1964)**..... **Chair and Professor of History**
A.B., 1959, Colorado College; M.A., 1962, Ph.D., 1967, Princeton University
- Theodore J. Crovello (1987)**..... **Dean of Graduate Studies and Research and Professor of Biology**
B.S., 1962, State University of New York and Syracuse University; Ph.D., 1966, University of California, Berkeley
- Cheryl A. Cruz (1992)**.....**Associate Professor of Accounting**
B.S., 1969, University of Massachusetts; M.B.A., 1975, Northeastern University; J.D., 1978, University of California, Los Angeles; M.B.T., 1988, University of Southern California; C.P.A., California; Member, State Bar of California
- Ivan N. Cury (1990)**.....**Associate Professor of Broadcasting**
B.F.A., 1959, Carnegie Mellon University; M.F.A., 1960, Boston University
- Elizabeth Da Silva-Cardoso (1999)** **Assistant Professor of Education**
B.A., 1990, Cadwell College; M.Ed., M.A., 1992, Columbia University; Ph.D., 1967, University of Wisconsin, Madison
- Fred Daneshgaran (1987)**..... **Professor of Electrical Engineering**
B.S., 1984, M.S., 1985, California State University, Los Angeles; Ph.D., 1992, University of California, Los Angeles
- Abbas Daneshvari (1982)**.....**Professor of Art**
B.S., 1969, California State College, Hayward; M.A., 1971, University of Massachusetts; Ph.D., 1977, University of California, Los Angeles
- William D. Darrough (1973)**..... **Professor of Sociology**
B.A., 1965, Whittier College; M.S.W., 1967, University of California, Berkeley; Ph.D., 1975, University of British Columbia
- Douglas A. Davis (1995)**.....**University Librarian**
B.A., 1966, San Fernando Valley State College; M.S., 1969, Simmons College
- Rebecca L. Davis (1990)**.....**Associate Professor of Art**
B.S., 1977, University of Delaware; Ph.D., 1984, University of Maryland
- Ralph W. Dawson (1968)**..... **Counselor**
B.A., 1968, California State College at Los Angeles; M.P.A., 1974, University of California, Los Angeles
- Cherie De Jong-Hawley (1989)**..... **Associate Professor of Education**
B.S., 1971, California State College at San Diego; M.A., 1979, Ph.D., 1989, University of California, Santa Barbara

- Sonsoles de Lacalle (1999)** **Assistant Professor of Biology and Microbiology**
M.A., International Institute of Education, Italy; Ph.D., M.D., 1990, University of Navarra, Spain.
- Paul DeCastro (1997)** **Assistant Professor of Music**
B.A., 1989, M.A., 1992, California State University, Los Angeles; D.M.A., 1997, University of Texas at Austin
- Roger Delgado (1979)** **Professor of Social Work**
B.S., 1967, Brigham Young University; M.S.W., 1970, University of Texas; Ph.D., 1984, University of Southern California
- Robert A. Desharnais (1988)** **Professor of Biology**
B.A., 1976, University of Massachusetts at Boston; M.S., 1979, Ph.D., 1982, University of Rhode Island
- Madlyn Detloff (1999)** **Assistant Professor of English**
B.A., 1987, University of Chicago; M.A., 1991, Women's Studies Doctoral Emphasis Certificate, 1997, Ph.D., 1997, University of California, Santa Barbara
- Timothy Diamond (1988)** **Associate Professor of Sociology**
B.A., 1969, University of Waterloo, Canada; M.A., 1973, Ph.D., 1977, Ohio State University
- Felipe Díaz (1988)** **Associate Professor of Spanish**
B.A., 1968, University of Kansas; M.A., 1973, Ph.D., 1978, University of Texas at Austin
- Mary L. Díaz (1977)** **Counselor**
B.A., 1971, San Fernando Valley State College; M.S.W., 1973, San Diego State College; Ph.D., 1994, Claremont Graduate School
- Jim D. Donohoo (1981)** **Professor of Accounting**
B.S., 1962, California State College at Fresno; M.S., 1970, San Fernando Valley State College; J.D., 1982, Loyola Marymount University
- Jamie Dote-Kwan (1990)** **Associate Dean for Student Services and Professor of Education**
B.A., 1976, M.A., 1979, California State University, Los Angeles; Ph.D., 1991, University of California, Los Angeles/California State University, Los Angeles
- Daniel Douke (1982)** **Professor of Art**
B.A., 1970, M.A., 1971, California State College, Los Angeles
- Adelaide Doyle-Nichols (1999)** **Assistant Professor of Education**
B.A., 1981, M.A., 1990, California State University, Los Angeles; Ph.D., 1997, University of Southern California
- Domnita Dumitrescu (1987)** **Professor of Spanish**
Diploma, University of Bucharest, Rumania; M.A., 1987, Ph.D., 1990, University of Southern California
- Carol M. Dunn (1981)** **Director of Intercollegiate Athletics**
B.S., 1973, M.Ed., 1976, Frostburg State College
- Pamela Dunne (1974)** **Professor of Theatre Arts**
B.A., 1967, University of California, Los Angeles; M.A., 1970, University of Washington; Ph.D., 1974, Florida State University
- Ramani S. Durvasula (1999)** **Assistant Professor of Psychology**
B.S., 1988, University of Connecticut, M.A., 1993, Ph.D., 1997, University of California, Los Angeles.
- John Eichinger (1992)** **Professor of Education**
B.S., 1974, M.S., 1980, California State Polytechnic College, Pomona; Ph.D., 1990, Claremont Graduate School
- Mitchell L. Eisen (1997)** **Assistant Professor of Psychology**
B.A., 1983, University of New Mexico; M.A., 1987, University of Chicago; Ph.D., 1993, University of Miami
- Marilyn R. Elkins (1991)** **Associate Professor of English**
B.A., 1964, Tennessee Technological University; M.A.T., 1968, University of Tennessee at Chattanooga; M.A., 1970, Vanderbilt University; Ph.D., 1991, University of North Carolina at Chapel Hill
- Lu Elrod (1978)** **Professor of Music**
B.M., 1960, Georgia State University; M.M.E., 1970, Ed.D., 1971, University of Georgia
- George N. Engler (1975)** **Professor of Finance**
B.S., 1965, University of Southern California; M.B.A., 1966, Ph.D., 1969, University of California, Los Angeles
- Martin B. Epstein (1970)** **Professor of Physics**
B.S., 1963, Columbia University; Ph.D., 1967, University of Maryland
- James E. Ettaro (1997)** **Assistant Professor of Technology**
B.S., 1989, Humboldt State University; M.S., 1994, California State University, Fresno; Ph.D., 1997, Iowa State University
- Stephanie Evans (1987)** **Professor of Education**
B.A., 1963, Los Angeles State College; M.A., 1965, California State College, Los Angeles; Ed.D., 1976, University of California, Los Angeles
- Neda S. Fabris (1979)** **Professor of Mechanical Engineering**
Diploma Engineering, 1965, University of Sarajevo, Yugoslavia; M.S., 1972, Ph.D., 1976, Illinois Institute of Technology
- Linda LaPlante Fahey (1982)** **Professor of Nursing**
B.S.N., 1974, Duke University; M.S.N., 1975, Emory University
- Mary A. Falvey (1980)** **Professor of Education**
B.A., 1972, California State University, Sacramento; M.A., 1977, San Francisco State University; Ph.D., 1980, University of Wisconsin-Madison
- Hsing Fang (1987)** **Professor of Finance**
B.A., 1974, National Taiwan University; M.A., 1977, National Chengchi University; Ph.D., 1986, Arizona State University
- Rod A. Faurot (1959)** **Professor of Kinesiology and Physical Education**
B.A., 1958, M.A., 1959, University of Washington
- Jennifer Faust (1993)** **Assistant Professor of Philosophy**
B.S., 1986, Spring Hill College; M.A., 1988, Ph.D., 1995, University of Illinois, Chicago
- Diane Fazzi (1992)** **Associate Professor of Education**
B.S., 1983, Kutztown University of Pennsylvania; M.Ed., 1984, University of Arkansas; Ph.D., 1993, California State University, Los Angeles/University of California, Los Angeles
- Stephen F. Felszeghy (1979)** **Professor of Mechanical Engineering**
B.S., 1961, M.S., 1963, University of California, Los Angeles; Ph.D., 1974, University of California, Berkeley
- Eleanor Ferguson-Marshalleck (1991)** **Professor of Nursing**
B.S., 1964, University of Illinois; M.P.H., 1971, University of California, Berkeley; M.A., 1982, M.A., 1984, Ph.D., 1997, Stanford University
- Miles M. Finney (1991)** **Associate Professor of Economics and Statistics**
B.A., 1986, University of Texas, San Antonio; M.A., 1989, Ph.D., 1992, University of Houston
- Stuart P. Fischhoff (1972)** **Professor of Psychology**
B.S., 1962, Pennsylvania State University; M.A., 1965, Ph.D., 1972, New School for Social Research
- Janet C. Fisher-Hoult (1986)** **Professor of Education**
B.A., 1958, University of Washington; M.A., 1972, University of California, Los Angeles; Ed.D., 1980, University of Southern California
- David Fitzpatrick (1967)** **Professor of Psychology**
B.A., 1962, University of California, Riverside; M.A., 1965, Ph.D., 1968, Claremont Graduate School
- Richard W. Fleming (1972)** **Associate Professor of Microbiology**
B.S., 1966, M.S., 1968, Ph.D., 1970, Iowa State University
- Edward C. Forde (1971)** **Professor of Art**
B.A., 1968, M.F.A., 1971, University of California, Santa Barbara
- Andrew Frank (1999)** **Assistant Professor of History**
B.A., 1992, Brandeis University, M.A., 1994, Ph.D., 1998, University of Florida

- Carolyn Frank (1998)** **Assistant Professor of Education**
B.A., 1966, University of Nevada, Reno; M.A., 1992, University of Nevada, Reno; Ph.D., 1997, University of California, Santa Barbara
- Daniel Frankl (1991)** **Associate Professor of Kinesiology and Physical Education**
B.A., 1982, State University of New York at Brockport; M.S., 1984, Ph.D., 1989, Southern Illinois University at Carbondale
- William Franklin (1998)** **Associate Professor of Child and Family Studies**
B.A., 1986, M.A., 1992, California State University, Northridge; Ph.D., 1995, Stanford University
- Grant A. Fraser (1982)** **Professor of Mathematics and Computer Science**
A.B., 1964, M.A., 1969, Ph.D., 1970, University of California, Los Angeles
- William Frea (1997)** **Assistant Professor of Education**
B.A., 1989, M.A., 1990, Ph.D., 1995, University of California, Santa Barbara
- Siegrun Fox Freyss (1996)** .. **Assistant Professor of Political Science**
B.A., 1962; M.A., 1970, Technical University, Munich, Germany; Ph.D., 1978, Claremont Graduate School
- Marilyn Friedman (1967)** **Professor of Nursing**
B.S., 1959, University of California, Los Angeles; M.S., 1964, University of Minnesota; Ph.D., 1985, University of Southern California; R.N., 1959, California
- John Funakura (1988)** **Professor of Art**
B.A., 1956, Tokyo Metropolitan University, Japan; M.F.A., 1988, California State University, Los Angeles
- Bernardo Gallegos (1987)** **Professor of Education**
B.A., 1974, University of Wisconsin-LaCrosse; M.A., 1980, Ph.D., 1988, University of New Mexico
- José L. Galván (1990)** **Associate Professor of Education**
B.S., 1970, M.A., 1972, Ph.D., 1980, University of Texas
- John A. Gamon (1991)** **Associate Professor of Biology**
B.S., Yale University; M.S., Ph.D., University of California, Davis
- Perry S. Ganas (1970)** **Professor of Physics**
B.S., 1960, University of Queensland, Australia; Ph.D., 1968, University of Sydney, Australia
- Nandakumar Ganesan (1985)** **Professor of Information Systems**
B.Sc., 1975, University of Ceylon, Sri Lanka; M.A., 1977, University of Lancaster, England; Ph.D., 1981, University of Birmingham, England
- Margaret Garcia (1993)** **Assistant Professor of Education**
B.A., 1986, University of California, Los Angeles; M.A., 1990, University of California, Berkeley; Ph.D., 1996, University of California, Los Angeles
- Raymond E. Garcia (1982)** **Professor of Biochemistry**
B.S., 1966, California Polytechnic State College, San Luis Obispo; B.A., 1970, Ph.D., 1976, University of California, Riverside
- Steven N. Garcia (1997)** **Vice President for Administration and Finance and Professor of Education**
B.G.S., 1975, M.P.A., 1979, University of Kansas; Ed.D., 1993, University of Washington
- Ann Garry (1969)** **Professor of Philosophy**
B.A., 1965, Monmouth College; M.A., 1966, University of Chicago; Ph.D., 1970, University of Maryland
- Neil H. Garston (1975)** **Professor of Economics and Statistics**
B.A., 1965, Brooklyn College; Ph.D., 1973, Brown University
- Jeanine S. Gaucher-Morales (1965)** **Professor of French and Spanish**
B.A., 1960, University of Nebraska; M.A., 1962, Ph.D., 1965, University of Southern California
- Irene M. Girton (1989)** **Associate Professor of Music**
B.Mus., 1976, Oberlin College; M.Phil., 1979, Ph.D., 1981, Yale University
- Christine C. Givner (1993)** **Professor of Education**
B.S., 1978, M.Ed., 1980, Ph.D. 1987, University of Pittsburgh
- Christine Gladish (1988)** **Librarian, User Services**
B.A., 1970, Ithaca College; M.L.S., 1971, Case Western Reserve University; M.P.A., 1976, University of Southern California
- Wayne Gladish (1987)** **Librarian, User Services**
B.A., 1970, Kenyon College; M.L.S., 1974, State University of New York at Buffalo
- Elena Glasberg (1997)** **Assistant Professor of Liberal Studies**
B.A., 1981, State University of New York; Ph.D., 1995, Indiana University
- David J. Godoy (1979)** **Assistant Vice President for Student Affairs—Educational Equity Administration**
B.A., 1972, California State University, Los Angeles; M.A., 1987, National University
- Philip K. Goff (1993)** **Assistant Professor of History**
B. A., 1986, Nyack College; M.A., 1988, University of Kansas; Ph.D., 1993, University of North Carolina
- Herbert Goldberg (1965)** **Professor of Psychology**
A.B., 1958, City College of New York; Ph.D., 1963, Adelphi University; Licensed Psychologist, 1968, California
- Harold Goldwhite (1962)** **Professor of Chemistry**
B.A., 1953, Ph.D., 1956, Cambridge University, England
- Frank A. Gomez (1993)** **Associate Professor of Chemistry**
B.A., 1986, California State University, Los Angeles; Ph.D., 1991, University of California, Los Angeles
- Ricardo J. Gomez (1983)** **Professor of Philosophy**
M.A., 1978, Ph.D., 1982, Indiana University
- Alfonso González (1975)** **Professor of Spanish**
B.A., 1967, M.A., 1968, Ph.D., 1971, University of Kansas
- Alfredo G. González (1977)** **Dean of Undergraduate Studies and Professor of Social Work**
B.S., 1971, California State Polytechnic College, Pomona; M.S.W., 1973, D.S.W., 1981, University of California, Berkeley
- José Cruz González (1990)** **Associate Professor of Theatre Arts**
B.A., 1980, University of California, San Diego; M.A., 1982, Arizona State University; M.F.A., 1985, University of California, Irvine
- Steven L. Gordon (1977)** **Professor of Sociology**
B.A., 1967, M.A., 1972, Ph.D., 1979, University of California, Los Angeles
- Harold J. Gottlieb (1972)** **Professor of Psychology**
B.A., 1960, Michigan State University; M.A., 1963, University of Colorado; M.A., 1965, New School for Social Research; Ph.D., 1972, Yeshiva University
- Gregory S. Graham (1968)** **Professor of Technology**
B.S., 1963, Oregon State University; M.A., 1964, San Jose State College; Ed.D., 1971, University of California, Los Angeles
- Shirley B. Gray (1994)** **Assistant Professor of Mathematics**
B.A., 1957, Western Kentucky University; M.A., 1966, Columbia University; Ph.D., 1991, University of Southern California
- David T. Gregorich (1968)** **Professor of Physics**
A.B., 1962, University of California, Los Angeles; M.S., 1964, California State College, Los Angeles; Ph.D., 1968, University of California, Riverside
- Estelle H. Gregory (1972)** **Professor of Psychology**
B.A., 1966, Ph.D., 1969, University of California, Berkeley
- Scott D. Grover (1983)** **Professor of Biochemistry**
B.A., 1972, University of California, Santa Barbara; Ph.D., 1980, University of California, Los Angeles
- Darrell W. Guillaume (1999)** **Assistant Professor of Mechanical Engineering**
B.S., 1983, M.S., 1987, San Diego State University; Ph.D., 1997, University of California, Irvine
- Carlos G. Gutierrez (1976)** **Professor of Chemistry**
B.S., 1971, University of California, Los Angeles; Ph.D., 1975, University of California, Davis

- Diane Haager (1992)**.....Associate Professor of Education
B.S.Ed., 1976, Miami University; M.Ed., 1986, University of Miami; Ph.D., 1992, University of Wisconsin
- Anne L. Hafner (1993)**Professor of Education
B.A., 1974, University of California, Santa Cruz; M.F.A., 1983, University of Southern California; Ph.D., 1990, University of California, Los Angeles
- G. Timothy Haight (1998)**Dean, School of Business and Economics and Professor of Finance
B.S., 1970, M.B.A., 1972, University of Dayton; D.B.A., 1980, George Washington University
- Rosemary L. Hake (1980)**Professor of English
B.A., 1958, Northern Illinois University; M.A., 1967, Ph.D., 1973, University of Chicago
- Judith Hamera (1987)**..... Chair, Department of Communication Studies, and Professor of Speech Communication
B.A., 1980, Wayne State University; M.A., 1982, Ph.D., 1987, Northwestern University
- Sin Fong Han (1971)**.....Professor of Geography
Diploma, 1963, Chung Chi College, Chinese University of Hong Kong, Hong Kong; M.A., 1966, McGill University, Canada; Ph.D., 1971, University of Michigan
- Kathryn Hansen (1998)**..... Associate Professor of Accounting
B.S., 1989, Winona State University; M.B.A., 1990, University of Wisconsin-La Crosse; Ph.D., 1996, George Washington University
- Clifford D. Harper (1982)**.....Executive Director, Luckman Fine Arts Complex, and Professor of Theatre Arts
B.A., 1962, University of Illinois; M.A., 1969, Ph.D., 1972, St. Louis University
- Janet Harris (1998)**.....Chair and Professor of Kinesiology and Physical Education
B.S., 1965, M.S., 1966, University of California, Los Angeles; Ph.D., 1972, University of California, Berkeley
- Margaret J. Hartman (1970)**.....Provost and Vice President for Academic Affairs and Professor of Biology
B.S., 1966, California Polytechnic State College, San Luis Obispo; M.A., 1968, Ph.D., 1970, Oregon State University
- Hassan Hashemian (1980)**..... Professor of Civil Engineering
B.S., 1972, M.S., 1974, University of Wisconsin; Ph.D., 1980, University of California, Berkeley; Registered Professional Civil Engineer, 1982, Wisconsin
- Michelle Hawley (1999)**Assistant Professor of English
B.A., 1989, Pomona College; M.A., 1990, University of Chicago
- Rick Stephan Hayes (1990)** Professor of Accounting
B.A., 1969, M.B.A., 1972, University of California, Los Angeles; M.Sc., 1986, Ph.D., 1989, London School of Economics
- Peter D. Hechler (1973)**.....Professor of Management
B.A., 1963, University of the Pacific; M.S., 1966, San Francisco State College; M.A., 1970, Ph.D., 1973, Case Western Reserve University
- J. Dennis Heim (1966)**.....Professor of Education
B.S., 1962, California State Polytechnic College, Pomona; M.A., 1966, California State College, Los Angeles; Ed.D., 1970, University of Southern California
- Michael J. Henderson (1994)**.....Assistant Professor of Art
B.F.A., M.F.A., 1972, Otis Art Institute
- W. Keith Henning (1966)**.....Professor of Speech Communication
B.A., 1962, Doane College; M.A., 1965, University of Arizona; Ph.D., 1973, University of Southern California; M.A., 1985, California State University, Northridge; Licensed Marriage, Family, and Child Counselor, 1985, California
- James Henrickson (1966)**.....Professor of Biology
B.S., 1962, Wisconsin State University; M.A., 1964, Ph.D., 1968, Claremont Graduate School
- Fernando A. Hernandez (1972)**.....Chair, Division of Educational Foundations and Interdivisional Studies and Professor of Education
B.A., 1969, California State College, Long Beach; M.A., 1971, Occidental College; Ph.D., 1977, United States International University
- Grace Shizuko Herrera (1990)**... Associate Professor of Theatre Arts
B.A., 1979, M.A., 1991, California State University, Los Angeles
- E. Anne Hess (1968)**Librarian, User Services
B.A., 1962, Texas Lutheran College; M.L.S., 1965, University of Texas at Austin
- Silvia P. Heubach (1994)**..... Assistant Professor of Mathematics
B.A., 1983, University of Ulm, Germany; Ph.D., 1992, University of Southern California
- Barry Hibbs (1997)**..... Assistant Professor of Geological Sciences
B.S., 1985, Arizona State University; M.S., 1989, University of Nebraska-Lincoln; Ph.D., 1993, University of Texas at Austin
- Raymond E. Hillis (1965)**.....Chair, Division of Administration and Counseling, and Professor of Education
A.B., 1962, M.A., 1965, Ph.D., 1968, University of California, Los Angeles
- Michael J. Hoffman (1981)**..... Chair, Department of Mathematics and Computer Science, and Professor of Mathematics
B.S., 1970, Massachusetts Institute of Technology; M.A., 1973, Ph.D., 1979, University of California, Berkeley
- Deborah Holland (1997)** Assistant Professor of Music
B.A., 1976, Mason Gross School of the Arts; M.M., 1996, California State University, Los Angeles
- George K. Hong (1990)**..... Professor of Education
B.Soc.Sc., 1974, Hong Kong Chinese University; M.A., 1978, University of North Carolina; M.A., 1979, Ph.D., 1982, Hofstra University
- Lawrence K. Hong (1970)**..... Professor of Sociology
B.A., 1964, University of Portland; M.A., 1966, Ph.D., 1970, University of Notre Dame
- H. Rika Houston (1997)** Assistant Professor of Marketing
B.S., 1987, Kansas State University; M.B.A., 1990, California State University, Long Beach; Ph.D., 1997, University of California, Irvine
- Lih-Min Hsia (1983)**..... Professor of Mechanical Engineering
B.S., 1966, National Taiwan University; M.S., 1973, M.Eng., 1974, Cornell University; Ph.D., 1979, University of California, Davis; Registered Professional Mechanical Engineer, 1982, California
- Edward W. T. Hsieh (1989)**.... Associate Professor of Economics and Statistics
B.A., 1978, National Taiwan University; Ph.D., 1988, University of Houston
- Kylie Hsu (1997)**..... Assistant Professor of Chinese
B.A., 1980, University of Michigan; M.A., 1994, California State University, Northridge; Ph.D., 1996, University of California, Los Angeles
- Adam S. Huarng (1999)**.....Associate Professor of Information Systems
B.A., 1982, Tunghai University, Taiwan; M.S., 1985, United States International University; Ph.D., 1993, University of Memphis
- Martin Huld (1998)** Assistant Professor of English
B.A., 1972, California State University, Los Angeles; Ph.D., 1979, University of California, Los Angeles
- Ron E. Hull (1964)**..... Assistant Professor of Kinesiology and Physical Education
B.A., 1963, University of California, Los Angeles
- Nancy A. Hunt (1981)**..... Associate Professor of Education
B.A., 1970, Canisius College; M.A., 1971, Teachers' College, Columbia University; Ph.D., 1982, University of Southern California
- Virginia H. Hunter (1982)**.. Associate Dean of Undergraduate Studies and Professor of Nursing
B.S., 1971, California State College, Los Angeles; M.N., 1973, Ph.D., 1982, University of California, Los Angeles

- Richard W. Hurst (1978)** **Professor of Geology**
B.S., 1970, State University of New York at Stony Brook; Ph.D., 1975, University of California, Los Angeles
- Manyul Im (1997)** **Assistant Professor of Philosophy**
B.A., 1987, University of California, Berkeley; M.A., 1993, Ph.D., 1997, University of Michigan
- Melva E. Irvin (1995)** **Director, Center for Effective Teaching and Learning and Professor of Kinesiology and Physical Education**
B.A., 1963, University of Northern Colorado; M.S., 1968, Pennsylvania State University; Ph.D., 1976, University of Utah
- Durward P. Jackson (1981)** **Professor of Information Systems**
B.S., 1964, University of Arizona; M.E.A., 1969, University of Utah; M.B.A., 1978, Golden Gate University; Ph.D., 1983, Claremont Graduate School
- George H. Jacobson (1984)** **Professor of Information Systems**
B.A., 1962, Columbia University; M.B.A., 1967, D.B.A., 1974, University of Southern California
- Pera Jambazian (1997)** **Assistant Professor of Nutritional Science**
B.S., 1981, California Lutheran University; M.S., 1988, California State University, Northridge
- Marianne L. James (1998)** **Assistant Professor of Accounting**
B.A., 1989, M.A., 1991, Ph.D., 1998, Florida International University
- Carol S. Jeffers (1993)** **Associate Professor of Art**
B.A., 1972, M.A., 1989, Ph.D., 1991, University of Maryland
- Margaret Jefferson (1977)** **Professor of Biology**
B.S., 1969, University of Dubuque; M.A., 1971, University of Colorado; Ph.D., 1977, University of Arizona
- Raymond I. Jeng (1968)** **Professor of Civil Engineering**
B.S., 1962, National Taiwan University, Taiwan; M.S., 1965, Ph.D., 1968, Colorado State University; Registered Professional Civil Engineer, 1973, California
- David A. Jenks (1999)** **Assistant Professor of Criminal Justice**
B.A., 1993, University of Akron; M.S., 1996, University of North Carolina at Charlotte
- Nandlal Jhunjhunwala (1967)** **Associate Professor of Mathematics**
B.S., 1958, Calcutta University, India; M.S., 1963, University of Bombay, India; Ph.D., 1966, Northwestern University
- Karen M. Johnson (1965)** **Associate Dean, School of Health and Human Services, and Professor of Kinesiology and Physical Education**
B.A., 1960, College of Idaho; M.A., 1965, California State College, Los Angeles; Ph.D., 1974, University of Southern California
- Ruth S. Johnson (1990)** **Professor of Education**
B.S., 1961, Springfield College; M.A., 1969, William Patterson University; Ed.D., 1985, Rutgers University
- Sharon Kay Johnson (1989)** **Professor of Education**
B.S., 1974, University of California, Los Angeles; M.S. 1976, California State University, Fullerton; Ed.D., 1988, Virginia Technical Institute and State College
- Albert F. Jones (1999)** **Assistant Professor of Education**
B.A., 1990, University of Mississippi; M.Ed., 1993; Ed.D., 1998, Tennessee State University
- Franklin Jones (1997)** **Assistant Professor of Education**
B.A., 1973, University of California, Santa Cruz; M.A., 1975, Ed.D., 1993, University of San Francisco
- Steven S. Jones (1983)** **Professor of English**
B.A., 1971, Haverford College; M.A., 1974, Ph.D., 1979, University of California, Davis
- Anupama Joshi (1996)** **Assistant Professor of Child and Family Studies**
B.S., 1987, College of Home Science, India; M.S., 1989, M.Phil., 1990, Maharaja Sayajirad University, India; Ph.D., 1997, Purdue University
- Marguerite P. Joyce (1989)** **Professor of Information Systems**
B.S., 1973, Missouri Western State College; M.Ed., 1975, Bowling Green State University; Ed.D., 1978, University of Nebraska
- Lorie H. Judson (1997)** **Assistant Professor of Nursing**
B.S.N., 1973, University of Wisconsin; M.N., 1976, University of California, Los Angeles
- James P. Kallusky (1995)** **Assistant Professor of Kinesiology and Physical Education**
M.A., 1991, California State University, Chico; Ed.D., 1997, University of Northern Colorado
- Lia Kamhi-Stein (1997)** **Assistant Professor of Education**
B.A., 1979, Salvador University, Argentina; M.A., 1991, California State University, Los Angeles; Ph.D., 1995, University of Southern California
- Terry R. Kandal (1968)** **Professor of Sociology**
A.B., 1965, M.A., 1967, Ph.D., 1974, University of California, Berkeley
- Richard H. Kao (1983)** **Professor of Marketing**
B.C., 1964, National Chengchi University, Taiwan; M.B.A., 1971, Michigan State University; Ph.D., 1978, University of Michigan
- Maria Karafilis (1999)** **Assistant Professor of English**
B.A., 1990, University of California, Berkeley; M.A., 1993, University of Maryland at College Park
- Kamran Karimlou (1984)** **Professor of Electrical Engineering**
B.S., 1977, University of Sussex, England; M.S., 1978, University of North Wales; Ph.D., 1983, University of Southern California
- Illias G. Kastanas (1981)** **Associate Professor of Mathematics and Computer Science**
M.S., 1976, Ph.D., 1981, California Institute of Technology
- Richard Katz (1969)** **Professor of Mathematics**
B.E.E., 1958, City College of New York; Ph.D., 1967, University of California, Los Angeles
- Dorothy L. Keane (1973)** **Professor of Education**
B.S., 1963, College of Mount St. Joseph; M.A., 1971, University of Detroit; Ed.D., 1973, Wayne State University
- Xiaofen Deng Keating (1999)** **Assistant Professor of Kinesiology and Physical Education**
B.Ed., 1984, M.Ed., 1987, Beijing University of Physical Education, Peoples Republic of China
- Valerie C. Kehm (1979)** **Associate Professor of Family Studies and Consumer Sciences**
B.S., 1967, M.S., 1971, University of Nebraska; Ph.D., 1977, Pennsylvania State University
- Barbara Keller (1990)** **Assistant Professor of Finance and Law**
B.A., 1969, Northwestern University; J.D., 1977, Loyola University of Chicago; admitted to the bar, California, 1978
- Michael P. Kelley (1972)** **Professor of Speech Communication**
B.A., 1965, University of Notre Dame; M.A., 1969, Ph.D., 1976, University of Pittsburgh
- Delos H. Kelly (1976)** **Chair and Professor of Sociology**
B.A., 1967, M.A., 1968, San Diego State College; Ph.D., 1970, University of Oregon
- James J. Kelly (1997)** **Dean, School of Health and Human Services and Professor of Social Work**
B.S., 1970, Edinboro University; M.S.S.W., 1972, University of Tennessee; Ph.D., 1975, Brandeis University
- Michael J. Kelly (1997)** **Professor of Engineering**
B.A., 1955, Marist College; B.S., M.S., 1961, Catholic University of America; Ph.D., 1968, University of Detroit
- John M. Kennedy (1996)** **Assistant Professor of Music**
B.M., 1984, Wallace College; M.M., 1988, University of Michigan

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- Irving Kett (1971)**..... **Professor of Civil Engineering**
B.C.E., 1944, City College of New York; M.C.E., 1949, Polytechnic Institute of Brooklyn; M.B.A., 1954, D. Eng. Sc., 1966, New York University; Registered Professional Engineer, 1949, New York; Licensed Land Surveyor, 1956, New York; Registered Professional Civil Engineer, 1972, California
- Crist S. Khachikian (1999)**..... **Asst Professor of Civil Engineering**
B.S., 1995, University of California Los Angeles; M.S., 1996, Massachusetts Institute of Technology;
- Rauf-Ur R. Khan (1968)**..... **Professor of Management**
B.A., 1953, L.I.B., 1955, M.P.A., 1957, University of Karachi, Pakistan; Diploma in Administration, 1958, Institute of Social Studies, Netherlands; M.B.A., 1963, D.B.A., 1971, University of Southern California
- Nazareth Khodiguian (1990)**..... **Associate Professor of Kinesiology and Physical Education**
Diploma, 1973, Armenian State Institute of Physical Education; Ph.D., 1986, University of Southern California
- George B. Killinger (1982)**..... **Associate Professor of Electrical Engineering**
B.S.E.E., 1955, M.S.E.E., 1958, Ph.D., 1968, University of Pittsburgh
- Lori Yoonkung Kim (1992)**..... **Associate Professor of Education**
B.S., 1979, University of California, Los Angeles; M.S., 1987, Ph.D., 1992, University of Southern California
- Neung-Jip Kim (1988)**..... **Associate Professor of Accounting**
B.S., 1975, Seoul National University, Korea; M.B.A., 1981, Ph.D., 1987, Temple University
- Sun K. Kim (1964)**..... **Professor of Economics and Statistics**
B. Comm., 1956, Seoul National University, Korea; A.M., 1959, University of Missouri; Ph.D., 1966, University of Southern California
- Taewon Kim (1987)**..... **Professor of Finance and Real Estate**
B.A. 1974, Yonsei University, Korea; M.A., 1982, Ph.D., 1986, University of Georgia
- Young C. Kim (1965)**..... **Chair and Professor of Civil Engineering**
B.S.C.E., 1958, University of Southern California; M.S.C.E., 1959, California Institute of Technology; Ph.D., 1964, University of Southern California
- Christina H. Kimm (1993)**..... **Professor of Education**
B.A., 1979, M.A., 1982, Dankook University, Korea; Ph.D., 1991, University of Minnesota
- Kimberly R. King (1998)**..... **Assistant Professor of Psychology**
B.A., 1988, Yale University; M.A., 1991, Ph.D., 1998, University of California, Los Angeles
- John A. Kirchner (1979)**..... **Professor of Geography and Marketing**
B.A., 1966, San Jose State College; M.A., 1970, Ph.D., 1979, University of Chicago
- Edward S. Klein (1999)**..... **Chair and Professor of Communication Disorders**
B.A., 1973, M.A., 1975, George Washington University; Ph.D., 1981, Pennsylvania State University
- M. Diane Klein (1982)**..... **Professor of Education**
B.A., 1967, Central Michigan University; M.A., 1969, Western Michigan University; Ph.D., 1980, Michigan State University
- Norman Klein (1971)**..... **Chair and Professor of Anthropology**
B.A., 1965, California State College, Los Angeles; M.A., 1966, University of California, Los Angeles; Ph.D., 1975, University of Oregon
- Nadine S. Koch (1987)**..... **Associate Professor of Political Science**
B.A., 1978, San Diego State University; M.A., 1982, Ph.D., 1985, Ohio State University
- Eric Kohatsu (1993)**..... **Assistant Professor of Psychology**
B.A., 1982, M.A., 1986, University of Hawaii; Ed.M., 1987, Rutgers University; Ph.D., 1992, University of Maryland
- Grigori Kolesnik (1984)**..... **Professor of Mathematics**
M.S., 1965, Moscow State University, Russia; Ph.D., 1972, Kiev State University, U.S.S.R.
- Cheryl Koos (1999)**..... **Assistant Professor of History**
B.A., 1988, Biola University, M.A., 1991, Ph.D., 1996, University of Southern California.
- Linda I. Kostalik (1986)**..... **Professor of Dance**
B.A., 1971, M.F.A., 1973, University of California, Irvine
- Ellen King Kravitz (1967)**..... **Professor of Music**
B.A., 1964, Georgian Court College; M.M., 1966, Ph.D., 1970, University of Southern California
- Ita Kreft (1991)**..... **Professor of Education**
Bachelor and master degree equivalents, University of Leiden, Netherlands; Ph.D., 1987, University of Amsterdam, Netherlands
- Beverly Krilowicz (1990)**..... **Associate Professor of Biology**
B.S., 1977, California State College at Fullerton; Ph.D., 1984, University of California, Riverside
- J. Gregory Kunkel (1993)**..... **Associate Professor of Accounting**
B.S., Ohio State University; M.B.A., 1975, Ph.D., 1980, University of California, Berkeley
- Antony Kunnan (1992)**..... **Associate Professor of Education**
B.A., 1974, M.A., 1976, Bangalore University, India; Post-master's Diploma in the Teaching of English, 1980, M. Litt., 1984, Central Institute of English and Foreign Languages, India; Ph.D., 1991, University of California, Los Angeles
- JoAn D. Kunselman (1990)**..... **Professor of Music**
A.B., 1968, Vassar College; M.L.S., 1974, Louisiana State University; M.M., 1974, University of Maryland; Ph.D., 1976, Louisiana State University
- Nancy E. Kupka (1982)**..... **Professor of Dance**
B.A., 1975, California State University, Los Angeles; M.A., 1979, University of California, Los Angeles
- Kwok Keung (Kern) Kwong (1986)**..... **Professor of Management**
B.S., 1980, Chinese University of Hong Kong; M.B.A., 1985, Ph.D., 1986, Georgia State University
- Jean P. LaCour (1977)**..... **Professor of Psychology**
B.A., 1967, M.S., 1968, California State College, Los Angeles; M.P.H., 1970, D.P.H., 1974, University of California, Los Angeles
- Stephen E. G. LaDochy (1987)**..... **Associate Professor of Geography**
B.A., 1967, University of California, Los Angeles; M.S., 1969, Colorado State University; Ph.D., 1985, University of Manitoba, Canada
- Kon S. Lai (1987)** . **Chair and Professor of Economics and Statistics**
B.S.S., 1980, University of Hong Kong; M.S., 1981, London School of Economics; Ph.D., 1987, University of Pennsylvania
- Christophe Lagier (1998)**..... **Assistant Professor of French**
B.A., 1986, University of Paris, France; M.A., 1989, San Diego State University; Ph.D., 1996, Princeton University.
- Robert Land (1998)**..... **Associate Professor of Education**
B.A., 1973, University of Pittsburgh; M.A., 1974, Duquesne University; Ph.D., 1983, University of Pittsburgh
- Raymond B. Landis (1985)**..... **Dean, School of Engineering and Technology, and Professor of Mechanical Engineering**
B.S., 1962, M.S., 1963, Massachusetts Institute of Technology; Ph.D., 1971, University of California, Los Angeles
- Frances Lang (1998)**..... **Associate Professor of Education**
B.A., 1971, M.A., 1993, California State University, Los Angeles; Ph.D., 1998, Claremont Graduate School
- Philip S. LaPol (1996)**..... **Assistant Professor of Biology**
B.S., 1982, Ph.D., 1988, University of California, Los Angeles
- Jaime Lara (1997)**..... **Assistant Professor of Art**
B.A., 1969, Cathedral College; M.Div., 1973, Immaculate Conception Seminary; M.A., 1985, University of the City of New York; S.T.M., 1989, Yale University Divinity School; Ph.D., 1995, University of California, Berkeley
- Theresa Larkin (1990)**..... **Associate Professor of Theatre Arts**
B.A., 1977, Loyola-Marymount University; M.F.A., 1983, University of California, Irvine

- Tom E. Larson (1987)**..... **Professor of Economics and Statistics**
B.A., 1979, University of California, Santa Cruz; Ph.D., 1986, University of California, Berkeley
- Christine Pollack Latham (1979)**..... **Professor of Nursing**
B.S., 1974, University of Wisconsin; M.S., 1979, California State University, Long Beach; D.N.Sc., 1990, University of San Diego
- Chor Tin Lau (1985)** **Professor of Accounting**
B. Com., 1966, Sir George Williams University, Canada; M.B.A., 1968, McMaster University, Canada; Ph.D., 1976, University of Oregon
- Richard Tinwah Lau (1989)** **Associate Professor of Accounting**
B.S., 1984, University of Southwestern Louisiana; M.S., 1986, Ph.D., 1989, Louisiana State University
- Rita Ledesma (1995)** **Assistant Professor of Social Work**
B.A., 1979; M.S.W., 1981, Ph.D., 1997, University of California, Los Angeles
- Benjamin L. Lee (1997)** **Associate Professor Technology**
B.S., 1980, Chinese Culture University; M.S., 1981, Central Missouri State University; Ph.D., 1992, University of Northern Iowa
- Dong Woo Lee (1995)**..... **Associate Professor of Accounting**
G.B.A., 1974, Seoul National University, Korea; M.B.A., 1987, Yonsei University, Korea; Ph.D., 1995, University of Michigan
- Hae Kyung Lee (1993)**..... **Associate Professor of Dance**
B.A., 1976, Ewha University, Seoul, Korea; M.A., 1982, University of California, Los Angeles
- Ronald S. Lemos (1993)** **Professor of Information Systems**
B.S., 1970, California State College, Los Angeles; M.B.A., 1972, Ph.D., 1977, University of California, Los Angeles
- Yuen-Sang (Philip) Leung (1986)**.....**Professor of History**
B.A., 1972, M.Phil., 1974, Chinese University of Hong Kong; Ph.D., 1980, University of California, Santa Barbara
- Janet Lever (1990)**.....**Associate Professor of Sociology**
B.A., 1968, Washington University; M.Ph., 1971, Ph.D., 1974, Yale University
- Anson J. Levine (1969)**.....**Associate Professor of Psychology**
B.A., 1963, M.A., 1967, San Fernando Valley State College; Ph.D., 1970, University of Houston
- Jack G. Levine (1960)** **Professor of Electrical Engineering**
B.S., 1958, M.S., 1960, University of California, Los Angeles
- Cheng Li (1988)** **Associate Professor of Management**
B.Eng., 1982, Shanghai Institute of Mechanical Engineering; M.B.A., 1986, Ph.D., 1989, Indiana University
- Roy Liebman (1969)**..... **Librarian, Collection Services**
B.A., 1958, Brooklyn College; M.L.S., 1960, Pratt Institute; M.A., 1978, California State University, Los Angeles
- Timothy C. Lim (1997)** **Assistant Professor of Political Science**
B.S., 1982, Lewis and Clark College; M.I.A., 1987, Columbia University; Ph.D., 1996, University of Hawaii, Manoa
- Rina Ling (1976)** **Professor of Mathematics**
B.S., 1970, M.S., 1972, Ph.D., 1976, University of Illinois
- Ethan B. Lipton (1984)**...**Associate Dean, School of Engineering and Technology, and Professor of Technology**
B.A., 1976, M.A., 1983, California State University, Los Angeles; Ph.D., 1990, University of Southern California
- Charles Liu (1999)**.....**Assistant Professor of Electrical Engineering**
B.S., 1991, National Taiwan University, Taiwan; M.S., 1994, Ph.D., 1998, University of Southern California.
- Daphne Liu (1991)** **Associate Professor of Mathematics**
B.S., National Central University, Taiwan; Ph.D., University of South Carolina
- Jun Liu (1992)** **Associate Professor of English**
B.A., 1975, Xi'an Foreign Languages University, People's Republic of China; Postgraduate Certificate in Translation (M.A. equivalent), 1981, United Nations Postgraduate Translation Program, Beijing Foreign Languages Institute, People's Republic of China; M.A., 1987, Ph.D., 1992, University of Massachusetts
- Anthony Longhetti (1989)**.....**Associate Professor of Criminal Justice**
B.A., 1950, University of California, Berkeley; M.P.A., 1991, California State University, San Bernardino
- Tony Longson (1986)** **Professor of Art**
B.A., 1971, Reading University, England; (M.A. equivalent) Bicentennial Arts Fellow, England, 1981
- Jean Loo (1985)** **Chair, Department of Finance and Law, and Professor of Finance**
B.A., 1976, National Taiwan University, Taiwan; M.A., 1978, University of Cincinnati; Ph.D., 1984, Ohio State University
- Genaro A. Lopez (1981)** **Professor of Biology**
B.A., 1963, Pan American College; M.S., 1967, University of Maine; Ph.D., 1973, Colorado State University
- Ignacio Lopez-Calvo (1997)**..... **Assistant Professor of Spanish**
B.A., 1991, Universidad Complutense, Spain; M.A., 1993, Ph.D., 1997, University of Georgia
- Z. Barry Lowenkron (1973)** **Professor of Psychology**
B.A., 1962, M.A., 1965, University of California, Los Angeles; Ph.D., 1968, University of New Mexico
- Susan Kim Lue (1997)**.....**Assistant Professor of Nutritional Science**
B.S., 1975, M.A., 1976, California State College, Los Angeles
- Stephen K. Ma (1990)** **Associate Professor of Political Science**
B.A., 1966, Shanghai Institute of Foreign Languages; M.A., 1985, Ph.D., 1994, University of Alberta, Canada
- G. Grant MacCurdy (1970)**.....**Professor of Spanish**
B.A., 1966, University of New Mexico; M.A., 1967, Ph.D., 1973, University of Arizona; M.S., 1996, Psychology, California State University, Los Angeles
- Maria Cecilia MacDowell dos Santos (1999)**..... **Assistant Professor of Sociology**
Bacharel em Direito, 1985, Federal University of Pernambuco, Brazil; Master in Law, 1991, University of Sao Paulo, Brazil; Ph.D., 1999, University of California, Berkeley
- Kelly Madison (1994)**..... **Assistant Professor of Broadcasting**
B.A., 1988, University of California, Los Angeles; M.A., 1991, Ph.D., 1996, University of Southern California
- Edward S. Malecki, Jr. (1967)** **Acting Director of Curriculum and Instruction, School of Natural and Social Sciences and Professor of Political Science**
A.B., 1961, L.I.B., 1963, A.M., 1965, Ph.D., 1969, University of Illinois; Admitted to the Bar, 1963, Illinois
- Ramachandra Manvi (1971)**..... **Professor of Mechanical Engineering**
B.E., 1958, Osmania University, India; Ph.D., 1968, Washington State University; Registered Professional Mechanical Engineer, 1973, California
- Alejandra Marchevsky (1999)**..... **Assistant Professor of English**
B.A., 1992, University of California at Berkeley; M.A., 1995, University of Michigan, Ann Arbor.
- Demetrius J. Margaziotis (1964)** **Professor of Physics**
B.A., 1959, M.A., 1961, Ph.D., 1966, University of California, Los Angeles
- Chogollah Maroufi (1988)** **Professor of Education**
B.S., 1978, M.A., 1979, California Polytechnic State College, San Luis Obispo; Ph.D., 1987, University of California, Los Angeles
- Rosemarie Marshall (1978)**..... **Professor of Microbiology**
B.S., 1964, University of Washington; M.S., 1966, Ph.D., 1968, Iowa State University

- Patricia Martz (1990)** Associate Professor of Anthropology
B.A., 1974, California State College, Long Beach; Ph.D., 1984, University of California, Riverside
- Susan Mason (1990)** Professor of Theatre Arts
B.A., 1979, San Jose State University; M.A., 1973, Idaho State University; Ph.D., 1980, University of Oregon
- Masako M. Matsuda (1977)** .. Professor of Communication Disorders
B.A., 1964, California State College, Fresno; M.A., 1973, California State University, Fresno; Ph.D., 1981, Pennsylvania State University
- Sachiko Matsunaga (1995)** Assistant Professor of Japanese
B.A., 1986, University of Oregon; M.A., 1989, Ph.D., 1994, University of Hawaii at Manoa
- Don M. Maurizio (1979)** Chair and Professor of Technology
B.A., 1971, California State College, Los Angeles, M.A., 1979, California State University, Los Angeles; Ed.D., 1983, United States International University
- Andrea P. Maxie (1986)** Associate Professor of Education
B.A., 1971, M.S., 1974, University of Southern California; Ph.D., 1987, University of California, Los Angeles
- G. Roy Mayer (1969)** Professor of Education
B.A., 1962, San Diego State College; M.S., 1965, Ed.D., 1966, Indiana University
- Mary Pat McEnrue (1981)** Professor of Management
B.A., 1975, Boston College; M.A., 1979, Ph.D., 1980, Wayne State University
- Carolyn Yvonne McIntosh (1992)** Librarian, User Services
A.B., 1964, Clark College; M.L.S., 1974, Indiana University
- Carol G. McKenzie (1970)** Professor of Kinesiology and Physical Education
B.A., 1963, University of Colorado; M.A., 1965, Indiana University; Ph.D., 1974, University of Southern California
- Caroline H. McManus (1993)** Assistant Professor of English
B.A., 1982, Occidental College; M.A., 1986, University of Exeter, England; Ph.D., 1992, University of California, Los Angeles
- Nancy L. McQueen (1989)** Associate Professor of Microbiology
B.S., 1975, California State Polytechnic College, Pomona; Ph.D., 1986, University of California, Los Angeles
- Henry R. Mendell (1983)** Professor of Philosophy
A.B., 1971, Cornell University; M.A., 1974, Cambridge University, England; Ph.D., 1986, Stanford University
- Pauline Mercado (1983)** Associate Professor of Education
B.A., 1974, M.A., 1976, San Diego State University; Ph.D., 1983, University of California, Santa Barbara
- Andrew Keith Mew (1997)** Associate Professor of Technology
B.A., 1974, West London Polytechnic, England; M.A., 1997, Lanchester Polytechnic, England; Ph.D., 1983, Warsaw University, Poland
- Robert L. Meyer (1970)** Associate Professor of Mathematics
B.S., 1963, M.A., 1964, University of Missouri; Ph.D., 1969, Michigan State University
- Hrushikesh N. Mhaskar (1980)** Professor of Mathematics
B.S., 1974, Nagpur University, India; M.S., 1976, Indian Institute of Technology, India; M.S., 1977, Ph.D., 1980, Ohio State University
- Darlene M. Michener (1985)** Professor of Education
B.S.Ed., 1979, Northern Illinois University; M.A., 1982, Ph.D., 1985, University of South Florida
- Milan B. Mijic (1991)** Associate Professor of Physics
Diploma in Physics, 1979, Belgrade University, Yugoslavia; M.S., 1982, Ph.D., 1983, California Institute of Technology
- Elizabeth Miller (1997)** Assistant Professor of Anthropology
B.S., 1985, M.A., 1989, Texas A&M University; Ph.D., 1995, Arizona State University
- Jung Kim Miller (1989)** Associate Professor of Nursing
B.S., 1974, California State College, Los Angeles; M.N., 1978, University of California, Los Angeles; Ph.D., 1988, University of Southern California
- Teodoro V. Millon (1992)** Assistant Professor of Health Science
B.S., 1986, University of California, Los Angeles
- Joan Sabrina Mims (1987)** Professor of Education
B.A., 1977, University of Southern California; M.A., 1980, San Diego State University; Ph.D., 1988, Claremont Graduate School/San Diego State University
- Majdedin Mirmirani (1981)** Chair and Professor of Mechanical Engineering
B.S., 1967, Tehran Polytechnic, Iran; M.S., 1971, Ph.D., 1977, University of California, Berkeley
- Lynda K. Mitchell (1980)** Professor of Education
B.A., 1975, University of California, Los Angeles; M.A., 1977, California State University, Northridge; Ph.D., 1980, Stanford University
- Thomas Miyake (1988)** Professor of Music
B.M.E., 1965, M.M., 1972, Adams State College of Colorado; D.M.A., 1985, University of Missouri, Kansas City
- Ali Modarres (1990)** Professor of Geography and Urban Analysis
B.L.A., 1983, M.L.A., 1985, Ph.D., 1990, University of Arizona
- Madhu S. Mohanty (1990)** Associate Professor of Economics and Statistics
B.A., 1977, M.A., 1979, M.Phil., 1983, Utkal University, India; Ph.D., 1990, University of Wisconsin–Milwaukee
- Jamil A. Momand (1999)** Assistant Professor of Biochemistry
B.S., 1983, Ph.D. 1989, University of California, Los Angeles
- Rosario Morales (1993)** Assistant Professor of Education
B.A., 1977, M.A., 1984, California State University, Los Angeles; Ed.D., 1993, University of San Francisco
- Allen A. Mori (1987)** Dean, Charter School of Education, and Professor of Education
B.A., 1969, Franklin and Marshall College; M.Ed., 1971, Bloomsburg State College; Ph.D., 1975, University of Pittsburgh
- Joy A. Morin (1993)** Professor of Education
B.A., 1969, M.S., 1977, California State College, Dominguez Hills; Ed.D., 1986, University of Southern California
- Margaret Moustafa (1997)** Associate Professor of Education
B.S., 1963, University of Illinois; M.A., 1969, American University in Cairo; Ph.D., 1990, University of Southern California
- Alan E. Muchlinski (1979)** Chair and Professor of Biology
B.A., 1975, St. John's University; Ph.D., 1979, Michigan State University
- Dennis M. Murphy (1975)** Professor of Accounting
B.A., 1963, Michigan State University; M.B.A., 1965, University of Michigan; M.B.A. (Taxation), 1978, Golden Gate University; C.P.A., 1973, California
- Robert R. Nakamura (1991)** Associate Professor of Biology
B.S., 1976, Stanford University; M.Phil., 1979, Ph.D., 1983, Yale University
- Edward Negrete, Jr. (1985)** Associate Professor of Education
B.A., 1967, Idaho State University; M.A., 1976, Pepperdine University; Ed.D., 1982, University of California, Los Angeles
- Louis R. Negrete (1972)** Professor of Chicano Studies
B.A., 1957, Los Angeles State College; M.A., 1970, Occidental College; Ph.D., 1976, United States International University
- ChorSwang Ngin (1993)** Associate Professor of Anthropology

B.A., 1972, Wellesley College; M.A., 1975, Ph.D., 1985, University of California, Davis

Thu-huong Nguyen-voAssistant Professor of Liberal Studies
B.A., 1984; M.A., 1990, California State University, Long Beach; Ph.D., 1998, University of California, Irvine.

Scott L. Nickolaisen (1994).....Assistant Professor of Chemistry
B.S., 1985, M.S., 1986, Utah State University; Ph.D., 1991, University of Southern California

Gordon L. Nipp (1971)Professor of Mathematics
B.A., 1963, Wartburg College; M.A., 1965, University of Wisconsin; Ph.D., 1972, University of Southern California

Gary A. Novak (1970)Professor of Geology
B.S., 1965, University of Dayton; M.S., 1967, Pennsylvania State University; Ph.D., 1970, Virginia Polytechnic Institute and State University

Jonathan Nwomonoh (1970).....Professor of Pan-African Studies
B.A., 1968, California State College, Los Angeles; M.P.A., 1970, M.S., 1973, University of Southern California; Ph.D., 1975, United States International University; Ph.D., 1979, Claremont Graduate School

Enrique C. Ochoa (1995)Assistant Professor of History
B.A., 1986, M.A., 1987, Ph.D., 1993, University of California, Los Angeles

Moonsong David Oh (1980)Professor of Marketing
B.A., 1960, M.A., 1962, Seoul National University, Korea; M.B.A., 1964, Cornell University; Ph.D., 1970, University of Pennsylvania

Lisa O'Connor (1995).....Associate Professor of Communication Disorders
B.A., 1973, M.A., 1975, California State University, Los Angeles

Linda S. O'Hirok (1991).....Assistant Professor of Geography
B.A., 1979, M.A., 1985, University of California, Los Angeles; Ph.D., 1995, Arizona State University

David Olsen (1993)...Assistant Professor of Speech Communication
B.A., 1984, Cedarville College; M.A., 1987, University of Virginia; Ph.D., 1993, Northwestern University

Jon L. Olson (1970).....Professor of Anthropology
B.S., 1962, Case Institute of Technology; Ph.D., 1972, Michigan State University

Teresa Portilla Omidasalar (1997)Librarian, User Services
B.A., 1977, California State University, Los Angeles; M.L.S., 1979, University of California, Los Angeles

Aida Takla O'Reilly (1970)Professor of Pan-African Studies
B.A., 1952, Cairo University, Egypt; M.A., 1955, University of California, Los Angeles; Doctorat d'Université, 1969, University of Paris, France

Elliott Oring (1971)Professor of Anthropology
B.A., 1966, Queens College; M.A., 1968, Ph.D., 1974, Indiana University

John Orta (1990).....Professor of Nutritional Science
B.S., 1973, M.S., M.S. Ed., 1975, Florida International University; M.Ed., 1980, M.A., 1983, Ed.D., 1987, Columbia University

Elaine Osio (1970)Professor of English
A.B., 1964, Hunter College; M.A., 1965, University of Michigan; Ph.D., 1969, New York University

Joseph C. Otto (1986)Professor of Information Systems
B.S., 1978, Iowa State University; M.S., 1982, Eastern Illinois University; Ed.D., 1987, Memphis State University

David Palmer (1997).....Assistant Professor of Education
B.S., 1982, M.S., 1988, California State University, Long Beach; Ph.D., 1995, University of California, Riverside

Raj S. Pamula (1987).....Associate Professor of Computer Science
B.Tech., 1980, Jawaharlal Nehru Technological University, India; M.Tech., 1982, Indian Institute of Technology, India; Ph.D., 1987, Southern Illinois University

Judith L. Papenhausen (1972)Chair and Professor of Nursing
B.S., 1971, California State College, Los Angeles; M.S., 1972, California State University, Los Angeles; Ph.D., 1995, University of Texas at Austin

Leslie Jane Park (1989).....Associate Professor of Accounting

B.S., 1960, University of Texas; M.S., 1977, University of Houston; Ph.D., 1965, University of Illinois

Parviz Partow-Navid (1983)Professor of Information Systems
B.B.A., 1973, Tehran Business College, Iran; M.B.A., 1976, Ph.D., 1981, University of Texas, Austin

Behzad Parviz (1986).....Associate Professor of Computer Science
BS., 1974, College of Accounting, Tehran, Iran; M.S., 1976, Marywood College; M.S., 1979, Ph.D., 1986, State University of New York at Binghamton

Douglas X. Patino (1998).....Professor of Social Work
B.A., 1962, M.A., 1966, San Diego State College; Ph.D., 1972, United States International University

Donald R. Paulson (1970)Professor of Chemistry
B.A., 1965, Monmouth College; Ph.D., 1968, Indiana University

David Pearson (1984)Professor of Biology
B.S., 1966, Muhlenberg College; Ph.D., 1971, Temple University

Betsy Peitz (1977).....Professor of Biology
B.A., 1970, Carlow College; Ph.D., 1975, Case Western Reserve University

David R. Perrott (1968).....Professor of Psychology
B.A., 1964, Ohio University; M.A., 1966, Ph.D., 1968, Kent State University

Miles Peterson (1987).....Associate Professor of Communication Disorders
B.S., 1980, M.A., 1982, Utah State University; Ph.D., 1987, University of Washington; Certificate of Clinical Competence–Audiology, 1983, American Speech-Language-Hearing Association

Thomas H. Peterson (1970)Professor of English
B.A., 1960, University of Wisconsin; M.A., 1965, Ph.D., 1971, University of California, Los Angeles

Snezana Petrovic (1997)Assistant Professor of Theatre Arts
B.A., 1980, Belgrade University, Yugoslavia; M.F.A., 1996, University of California, Irvine

Jean S. Phinney (1977)Professor of Psychology
B.A., 1955, Wellesley College; M.A., 1969, California State College, Los Angeles; Ph.D., 1973, University of California, Los Angeles

Ronald L. Pierce (1973).....Associate Professor of Accounting
B.A., 1963, M.A., 1965, Brigham Young University; C.P.A., 1965, Utah, 1976, California

Eleni N. Pitsiou-Darrough (1973)Professor of Sociology
B.A., 1969, Stetson University; M.S., 1970, Ph.D., 1973, Iowa State University

Stephen K. Pollard (1982).....Director of Academic Technology Support and Professor of Economics and Statistics
B.A., 1978, Sonoma State College; M.S., 1980, Ph.D., 1982, Ohio State University

Joseph B. Prabhu (1978).....Professor of Philosophy
B.A., 1966, M.A., 1968, Delhi University, India; M.A., 1975, Cambridge University, England; Ph.D., 1982, Boston University

Jagdish Prasad (1969).....Professor of Mathematics
B.S., 1960, M.S., 1962, University of Lucknow, India; M.S., 1964, University of Windsor, Canada; Ph.D., 1968, University of Alberta, Canada

Nikolai Pulchritudoff (1972).....Associate Professor of Economics and Statistics
B.A., 1964, Sacramento State College; M.S., 1965, Ph.D., 1971, University of California, Davis

J. Alex Pulido (1989).....Professor of Education
B.A., 1961, California State College at San Jose; M.A., 1971, Texas Tech University; Ph.D., 1981, University of California, Santa Barbara

- Rupa P. Purasinghe (1988)**..... **Professor of Civil Engineering**
B.S., 1978, University of Sri Lanka; M.S., 1981, Portland State University;
Ph.D., 1985, Case Western Reserve University; Registered Professional
Civil Engineer, 1994, California
- Fred Pyrczak, Jr. (1970)**.....**Professor of Education**
B.S., 1966, West Chester State College; Ph.D., 1972, University of
Pennsylvania
- Hong-lie Qiu (1996)****Assistant Professor of Geography**
B.S., 1982, Fujian Teacher's University, People's Republic of China;
Ph.D., 1994, Louisiana State University
- Juli Quinn (1998)** **Assistant Professor of Education**
B.A., 1971, University of Southern California; M.A., 1982, Point Loma;
Ph.D., 1998, University of Southern California
- Ruben D. Quintero (1988)**.....**Associate Professor of English**
B.A., 1978 (Philosophy), B.A., 1980 (English), California State College,
Los Angeles; A.M., 1983, Ph.D., 1988, Harvard University
- Raj S. Ramchandani (1976)**.....**Professor of Electrical Engineering**
B.Sc., 1964, Birca Institute of Technology, India; M.S., 1966,
Pennsylvania State University; Ph.D., 1975, Ohio State University;
Registered Professional Electrical Engineer, 1964, Ohio
- John J. Ramirez (1989)**.....**Associate Professor of Broadcasting**
B.A., 1977, M.A., 1980, Ph.D., 1991, University of California, Los Angeles
- Pedro C. Ramirez (1991)**..... **Associate Professor of Geology**
B.A., 1977, Ph.D., 1990, University of California, Santa Cruz
- D. Lynn Rans (1984)**.....**Professor of Accounting**
B.S., 1958, Indiana University; M.B.A., 1963, Michigan State University;
D.B.A., 1972, Indiana University; C.P.A., 1967, Virginia
- Marshall E. Reddick (1970)****Professor of Marketing**
B.S., 1965, M.S., 1967, Colorado State University; D.B.A., 1971, Texas
Technical University
- James A. Regalado (1987)**..... **Executive Director, Edmund G. "Pat"
Brown Institute of Public Affairs, and Professor of
Political Science**
B.A., 1971, M.A., 1973, California State University, Los Angeles; Ph.D.,
1980, University of California, Riverside
- Pamela C. Regan (1996)**..... **Assistant Professor of Psychology**
B.A., 1988, Williams College; M.A., Ph.D., 1994, University of Minnesota
- Suzanne E. Regan (1979)** **Professor of Broadcasting**
B.A., 1971, Simmons College; M.A., 1974, University of California, Los
Angeles; Ph.D., 1981, University of Massachusetts
- Kathryn Reilly (1999)****Associate Dean for Curriculum and
Assessment and Professor of Education**
A.B., 1967, M.A., 1969, Smith College; M.S., 1972, Southern Illinois
University; Ph.D., 1978, St. Louis University
- Edward H. Rezayi (1983)**..... **Professor of Physics**
B.S., 1972, Worcester Polytechnic Institute; Ph.D., 1979, Stanford
University
- Siyon Y. Rhee (1993)** **Associate Professor of Social Work**
B.A., 1974, Seoul National University, Korea; M.S.W., 1981, D.S.W.,
1988, University of California, Los Angeles
- Katherine Roberts (1998)** **Assistant Professor of Criminal Justice**
B.Sc., 1987, King's College, University of London, England; M.Sc., 1989,
University of Strathclyde, Scotland; M.Phil., 1998, City University of New
York
- Carlos D. Robles (1979)**.....**Professor of Biology**
B.A., 1972, University of California, Santa Barbara; Ph.D., 1979,
University of California, Berkeley
- Martin S. Roden (1968)**.....**Professor of Electrical Engineering**
B.S.E.E., 1963, M.S.E.E., 1964, Polytechnic Institute of Brooklyn; Ph.D.,
1982, Kensington University
- José P. Rodriguez (1992)** **Associate Professor of Physics
and Astronomy**
B.S., 1982, Massachusetts Institute of Technology; Ph.D., 1987,
University of Illinois at Urbana-Champaign
- Michael W. Roffe (1973)**.....**Chair and Professor of Psychology**
B.A., 1963, University of California, Los Angeles; M.A., 1965, California
State College, Los Angeles; Ph.D., 1970, University of Portland
- Gloria J. Romero (1989)**..... **Associate Professor of Psychology**
B.A., 1978, California State College, Long Beach; M.A., 1980, Ph.D.,
1983, University of California, Riverside
- Howard Rosen (1970)**..... **Professor of Biology**
B.S., 1961, M.A., 1965, Ph.D., 1968, University of California, Los Angeles
- Paul H. Rosenthal (1988)**..... **Chair and Professor of Information
Systems**
B.S.Ed., 1950, M.A., 1953, Temple University; M.B.A., 1963, University of
California, Los Angeles; D.B.A., 1980, University of Southern California
- James M. Rosser (1979)****President of the University and
Professor of Management**
B.A., 1962, M.A., 1963, Ph.D., 1969, Southern Illinois University
- Alice M. Roy (1984)****Professor of English**
B.A., 1959, University of Michigan; M.A., 1963, University of Maryland;
M.A., 1973, Ph.D., 1978, University of Michigan
- Amelia A. Russo-Neustadt (1999)** **Assistant Professor of Biology**
B.S., 1983, Chapman University; Ph.D., 1988, M.D., 1990, University of
California, Irvine
- Helen A. Ryaciotaki-Boussalis (1985)** **Chair and Professor
of Electrical Engineering**
B.S., 1974, New York Institute of Technology; M.S., 1976, Ph.D., 1980,
New Mexico State University
- Kenneth Ryan (1988)**.....**Librarian, User Services**
B.A., 1963, M.A., 1967, University of Texas at Austin; M.L.S., 1978,
North Texas State University
- Catherine Ryu (1998)** **Assistant Professor of Japanese**
B.A., 1984, Pomona College; M.A., Ph.D., 1998, University of Michigan
- Cari Saben (1999)****Assistant Professor of
Communication Disorders**
B.A., 1987, M.A. 1989, Ph.D., 1995, University of California, Santa
Barbara
- Noriko Saito (1991)**..... **Professor of Education**
B.A., 1978, M.A., 1980, Ph.D., 1982, University of Southern California
- David Sandoval (1979)**...**Director, Educational Opportunity Program**
B.A., 1975, M.A., 1987, California State University, Los Angeles
- Rolando A. Santos (1965)**..... **Professor of Education**
A.B., 1955, B.S.E., 1956, Ateneo College, Philippines; M.A., 1958, Ph.D.,
1961, George Peabody College for Teachers
- Sunil K. Sapra (1991)**.....**Professor of Economics and Statistics**
B.S., 1973, Ramjcs College, University of Delhi, India; M.A., 1976, Delhi
School of Economics, India; M. Phil., 1981, Ph.D., 1983, Columbia
University
- Patricia Savich (1979)** **Professor of Communication Disorders**
B.S., 1967, Northern Illinois University; M.A., 1971, University of Illinois;
Ph.D., 1981, University of Colorado
- Deborah Schaeffer (1988)**.....**Librarian, Collection Services**
B.A., 1977, California State College, Long Beach; M.L.S., 1979,
University of California, Los Angeles
- Martin J. Schiesl (1970)** **Professor of History**
B.A., 1965, M.A., 1968, Ph.D., 1972, State University of New York at
Buffalo
- Alfredo Schifini (1991)** **Professor of Education**
B.A., 1973, University of San Diego; M.A., 1975, M.A., 1981, California
State University, Los Angeles; Ph.D., 1984, University of California, Los
Angeles
- William B. Schneider (1978)** **Associate Professor of Accounting**
B.A., 1961, Occidental College; M.B.A., 1973, University of Southern
California; Ph.D., 1988, Claremont Graduate School; C.P.A., 1970,
California, 1973, Wisconsin

- Paul E. Schnitzel (1974)**..... **Professor of Finance**
B.A., 1964, St. Francis College; M.A., 1967, Ph.D., 1971, New York University
- Jan Schroeder (1997)**..... **Assistant Professor of Kinesiology and Physical Education**
B.A., 1989, Chapman College; M.S., 1994, California State University, Fullerton; Ph.D., 1997, University of Kansas
- Virgil A. Seaman (1987)** **Professor of Technology**
B.S., 1979, Lake Superior State College; M.A., 1983, Ph.D., 1987, Indiana State University
- Matthias Selke (1998)**..... **Assistant Professor of Chemistry**
B.S., 1990, University of Southern California; Ph.D., 1994, University of California, Los Angeles
- Carl M. Selkin (1970)**..... **Dean, School of Arts and Letters, and Professor of English**
B.A., 1965, Syracuse University; M.A., 1967, Ph.D., 1974, State University of New York at Binghamton
- Penelope Semrau (1988)**..... **Professor of Education**
B.S.E., 1972, University of Wisconsin–Whitewater; M.A., 1980, Illinois State University; Ph.D., 1987, Ohio State University
- Ray O. Shackelford (1995)**..... **Associate Professor of Technology**
B.A., 1972; M.A., 1974, California State University, Los Angeles
- William E. Shafer (1993)** **Associate Professor of Accounting**
B.S., 1983, M.S., 1984, Sam Houston University; Ph.D., 1994, University of Houston
- Behjat A. Sharif (1991)** **Associate Professor of Health Science**
B.A., 1973, Teachers' Training University, Iran; M.S., 1982, Southern Illinois University at Carbondale; Ph.D., 1989, Texas Women's University; Certified Mediator
- Sandra B. Sharp (1986)**..... **Associate Professor of Biology**
B.A., 1967, University of California, Berkeley; Ph.D., 1981, University of California, Los Angeles
- Andrew Shin (1999)**..... **Assistant Professor of English**
B.A., 1984, University of Toronto, Canada; Ph.D., 1996, University of Virginia
- Andrew D. Shroyer (1997)** .. **Associate Librarian, Collection Services**
B.A., 1980, University of Oklahoma; M.L.S., 1983, University of Texas at Austin
- Peter H. Sigal (1997)**..... **Assistant Professor of History**
B.A., 1986, Bucknell University; M.A., 1992, Ph.D., 1995, University of California, Los Angeles
- Michael J. Siler (1993)**..... **Assistant Professor of Political Science**
B.S., M.S., 1977, University of California, Los Angeles; M.P.A., 1979, University of Washington; Ph.D., 1992, University of Southern California
- Barbara Peterson Sinclair (1961)**..... **Professor of Nursing**
B.S., 1957, University of Maryland; M.N., 1958, Emory University; R.N., 1961, California; ANA/NACOG National Certification, 1978
- Constantina Skanavis (1988)** **Associate Professor of Health Science**
B.S., 1980, California State College, Long Beach; M.S., 1982, California State University, Long Beach; Ph.D., 1988, University of California, Los Angeles
- Simeon P. Slovacek (1981)**..... **Professor of Education**
B.A., 1971, Syracuse University; M.S., 1974, Ph.D., 1976, Cornell University
- Ludwig Slusky (1985)** **Professor of Information Systems**
M.S., 1961, Institute of Mechanical Engineering (Bauman), U.S.S.R.; Ph.D., 1968, Academy of Municipal Economy, U.S.S.R.
- Benjamin W. Smith (1963)** ... **Chair and Professor of Political Science**
A.B., 1959, University of Redlands; Ph.D., 1969, University of Texas
- Jon Snodgrass (1972)**..... **Professor of Sociology**
B.A., 1965, M.A., 1967, University of Maryland; Ph.D., 1972, University of Pennsylvania; Ph.D., 1983, Reiss-Davis Child Study Center
- Marguerite Ann Snow (1988)**..... **Professor of Education**
B.A., 1977, M.A., 1979, Ph.D., 1985, University of California, Los Angeles
- Sidney Soclof (1960)**..... **Professor of Electrical Engineering**
B.S.E.E., 1958, University of Florida; M.S.E.E., 1959, University of Michigan; Ph.D., 1968, University of California, Los Angeles
- Joseph E. Soldate (1966)** **Chair and Professor of Art**
A.B., 1961, Long Beach State College; M.F.A., 1963, Claremont Graduate School
- David L. Soltz (1996)** ... **Dean, School of Natural and Social Sciences, and Professor of Biology**
A.B., 1968, University of California, Berkeley; Ph.D., 1974, University of California, Los Angeles
- Ira Sommers (1996)** **Associate Professor of Criminal Justice**
B.A., 1974, State University of New York; M.S., 1976, Boston University; D.S.W., 1983, University of Pennsylvania
- B. Lael Sorensen (1993)**..... **Assistant Professor of History**
B.A., 1979, Rutgers University; A.M., 1983, Ph.D., 1995, University of Michigan
- Marcel Soriano (1990)** **Professor of Education**
B.A., 1968, M.A. 1972, University of California, Riverside; Ph.D., 1984, United States International University
- Cynthia Sorrensen (1999)**..... **Assistant Professor of Geography**
B.A., 1985, University of Redlands, M.A., 1994, Ph.D., 1998, Ohio State University.
- Stephen P. Sottong (1997)**..... **Senior Assistant Librarian, User Services**
B.S., 1985, Purdue University; M.L.S., 1993, San Jose State University
- Ralph S. Spanswick (1970)** **Chair and Professor of Accounting**
B.S., 1959, State University of New York at Albany; M.A., 1961, New York University; Ed.D., 1967, Northern Illinois University
- Carole Srole (1984)**..... **Associate Professor of History**
B.A., 1970, M.A., 1973, Ph.D., 1984, University of California, Los Angeles
- Andrew Stauffer (1998)** **Assistant Professor of English**
B.A., 1989, University of Pennsylvania; M.A., 1992, Ph.D., 1997, University of Virginia
- Timothy Steele (1987)** **Professor of English**
B.A., 1970, Stanford University; M.A., 1971, Ph.D., 1977, Brandeis University
- Alan P. Stein (1977)** **Librarian, User Services**
B.A., 1969, M.A., 1970, University of Denver; M.P.A., 1977, University of Arizona; J.D., 1982, Glendale College of Law
- Beverly Stein (1999)** **Assistant Professor of Music**
B.A., 1981, The Juilliard School; M.A., 1988, Ph.D., 1994, Brandeis University
- John F. Steiner (1973)** **Professor of Management**
B.S., 1967, Southern Oregon College; M.A., 1970, Ph.D., 1973, University of Arizona
- William L. Sternal (1965)** **Counselor**
B.A., 1962, University of Minnesota; M.A., 1964, University of North Dakota; Ed.D., 1966, Indiana University; Licensed Psychologist, 1968, California; School Psychologist, 1970, California
- Shirley M. Stretch-Stephenson (1987)** **Chair and Professor of Marketing**
B.S., 1971, University of Nebraska-Lincoln; M.S., 1972, Kansas State University; M.B.A., 1977, Ph.D., 1982, Ohio State University
- Robert J. Stull (1969)**..... **Chair and Professor of Geology**
B.S., 1965, Lamar State College of Technology; M.S., 1967, Ph.D., 1969, University of Washington
- Kaveri Subrahmanyam (1996)**..... **Assistant Professor of Child and Family Studies**
B.A., 1984, University of Madras, India; M.A., 1986, University of Mysore, India; M.A., 1989, Ph.D., 1993, University of California, Los Angeles

650 / Full-time Tenure-track Faculty

Pudukkottai K. Subramanian (1985)....Professor of Mathematics and Computer Science

B.S., 1957, Delhi University, India; M.S., 1965, Miami University of Ohio; Ph.D., 1971, University of Wisconsin–Milwaukee; Ph.D., 1985, University of Wisconsin–Madison

James T. Sullivan (1969)Professor of English
B.F.A., 1972, M.M., 1977, University of South Dakota; Ph.D., 1985, Brandeis University

John J. Swain (1984).....Professor of Music
B.F.A., 1972, M.M., 1977, University of South Dakota; Ph.D., 1985, Michigan State University

Hershel Swinger (1980).....Professor of Education
B.A., 1966, M.S., 1968, California State College, Los Angeles; Ph.D., 1978, University of Southern California

June Szabo-Kifer (1998) Assistant Professor of Education
B.A., 1979, University of Evansville; M.A., 1988, Indiana University; Ph.D., 1998, University of California, Santa Barbara

Lili Tabrizi (1988).....Professor of Electrical Engineering
B.S., 1975, Arya-Mehr University of Technology, Iran; M.S., 1978, Ph.D., 1983, Michigan State University

Lillian Taiz (1992)Associate Professor of History
B.A., 1981, M.A., 1983, San Francisco State University; Ph.D., 1993, University of California, Davis

Narendra B. Taly (1977)..... Professor of Civil Engineering
B.Sc., 1959, Banaras Hindu University, India; M.S., 1971, Bucknell University; Ph.D., 1976, West Virginia University; Registered Professional Civil Engineer, 1976, West Virginia; Registered Professional Civil Engineer, 1977, California

Chick F. Tam (1982) Professor of Nutritional Science
B.S., 1967, Chinese University of Hong Kong; M.S., 1971, Dr.P.H., 1974, University of California, Los Angeles

Robert K. Tamaki (1969)..... Associate Professor of Mathematics
A.B., 1966, University of California, Los Angeles; M.A., 1969, Ph.D., 1970, University of Southern California

Rodolfo G. Tamez (1989).....Professor of Mathematics
B.A., 1981, University of California, Santa Barbara; M.A., 1983, Ph.D., 1988, University of California, Berkeley

Le D. Tang (1986)Professor of Technology
B.Ed., 1972, National Taiwan Normal University; M.A., 1979, East Tennessee State University; Ph.D., 1981, Ohio State University

Alison Taufer (1990)..... Associate Professor of English
B.A., 1980, Loyola-Marymount University; M.A., 1984, Ph.D., 1988, University of California, Los Angeles

L. Clinton Taylor,Associate Professor of Education
B.A., 1968, University of California, Santa Cruz; M.S., 1975, Ed.D., 1981, University of Southern California.

William A. Taylor (1970)..... Professor of Physics
B.A., 1961, M.A., 1963, Ph.D., 1967, University of California, Riverside

Carlos Tejeda (1998) Assistant Professor of Education
B.A., 1987, University of California, Santa Cruz; M.A., 1994, California State University, Los Angeles

Wayne R. Tikkanen (1986)..... Chair, Department of Chemistry and Biochemistry and Professor of Chemistry
B.S., 1976, University of Rhode Island; M.A., 1980, Ph.D., 1982, University of California, Santa Barbara

Elizabeth Torres (1998)Assistant Professor of Biology
B.S., 1989, Arizona State University; Ph.D., 1997, University of California, Los Angeles

Dang T. Tran (1987).....Associate Professor of Economics and Statistics
Licence en droit, 1964, Saigon University, Viet Nam; B.Ec., 1969, University of Western Australia; M.A., 1975, Ph.D., 1977, Syracuse University

Ronald T. Tsukashima (1972)..... Professor of Sociology
B.A., 1965, California State College, Los Angeles; M.A., 1967, Ph.D., 1973, University of California, Los Angeles

Mark R. Tufenkjian (1997)...Assistant Professor of Civil Engineering
B.S., 1986, California State University, Fresno; M.S., 1989, Ph.D., 1993, University of California, Los Angeles

Linda M. Tunstad (1992)Associate Professor of Chemistry
B.S., 1983, California State University, Los Angeles; Ph.D., 1990, University of California, Los Angeles

Carol F. Tuntland (1988)Associate Professor of Art
B.S., 1965, North Dakota State University; M.A., 1987, California State University, Long Beach; Ed.D., 1995, Pepperdine University

Victor Ukpolo (1999)...Assistant Vice President for Academic Affairs and Professor of Economics
B.A., 1975, University of Maryland; M.A., 1997, Ph.D., 1985, The American University

Norman Unrau (1993) Professor of Education
B.S., 1965, Columbia University; M.A., 1966, Teachers College, Columbia University; Ed.D., 1989, University of California, Berkeley

Connie Utterback (1991)Associate Professor of Art
B.F.A., 1969, Washington University; M.F.A., 1981, University of California, Los Angeles

Frederick Uy (1998) Assistant Professor of Education
B.A., 1986, University of Philippines, Quezon; M.A., 1990, Montclair State University; Ed.D., 1996, Teachers College, Columbia University

Nguyen Uy (1984)Professor of Mathematics and Computer Science
B.A., 1968, University of Saigon, Vietnam; M.A., 1972, University of California, Los Angeles; M.S., 1973, State University of New York; Ph.D., 1974, University of California, Los Angeles

Ashish K. Vaidya (1991)..... Associate Professor of Economics and Statistics
B.A., 1983, St. Xavier's College, India; M.A., 1985, University of Bombay, India; M.A., Ph.D., 1990, University of California, Davis

Paul W. Van Ness (1976)..... Professor of Music
B.M., 1969, M.M., 1971, Eastman School of Music

Robert L. Vellanoweth (1994)Assistant Professor of Biochemistry
B.S., 1982, California State University, Los Angeles; Ph.D., 1988, University of California, Berkeley

Stewart M. Venit (1971)Professor of Mathematics
B.A., 1966, Queens College; M.A., 1969, Ph.D., 1971, University of California, Berkeley

Kayley Vernallis (1993) Assistant Professor of Philosophy
A.B., 1982, Stanford University; Ph.D., 1993, University of California, Berkeley

Diane Vernon (1969)..... Professor of Nursing
B.S., 1963, California State College, Los Angeles; M.N., 1969, University of California, Los Angeles; R.N., 1959, P.H.N., 1963, California

Andrei Verona (1984)Professor of Mathematics
M.S., 1966, Ph.D., 1971, University of Bucharest, Romania

Thomas Verrier (1999) Assistant Professor of Music
B.A., 1987, Ithaca College; M.A., 1994, California State University, Long Beach; D.M.A., 1998, University of Colorado, Boulder.

Robert Vianello (1984)..... Professor of Broadcasting
B.A., 1972, University of Michigan; M.A., 1982, Ph.D., 1988, University of California, Los Angeles

- Elizabeth Viau (1992)** **Professor of Education**
B.A., 1956, B.Ed., 1963, University of British Columbia, Canada; M.A., 1986, California State University, Chico; Ph.D., 1986, University of Oregon
- Hildebrando Villarreal (1976)** **Professor of Spanish**
B.A., 1964, M.A., 1969, University of New Mexico; Ph.D., 1976, University of California, Los Angeles
- Glenda Vittimberga (1998)** **Associate Professor of Education**
B.A., 1988, University of Rhode Island; M.A., 1991, Ph.D., 1994, West Virginia University
- Kenneth A. Wagner (1969)** **Professor of Political Science**
B.S., 1959, M.Ed., 1964, South Dakota State University; Ph.D., 1970, University of Iowa
- Michael Louis Wapner (1968)** **Associate Professor of Psychology**
B.A., 1957, Reed College; M.A., 1961, Los Angeles State College; Ph.D., 1966, University of California, Los Angeles
- Hugh E. Warren (1976)** **Acting Associate Dean, School of Business and Economics, and Professor of Accounting**
B.S., 1963, Stanford University; M.A., 1975, University of Arizona; Ph.D., 1966, University of Michigan
- Nancy Warter-Perez (1994)** **Associate Professor of Electrical Engineering**
B.S., 1985, Cornell University; M.S., 1989, Ph.D., 1993, University of Illinois, Urbana
- Judith M. Washburn (1974)** **Chair, Division of Curriculum and Instruction, and Professor of Education**
B.S., 1969, University of Wisconsin; M.A., 1971, Ph.D., 1974, Ohio State University
- Paul V. Washburn (1973)** **Professor of Management**
B.A., 1969, Wake Forest University; M.A., 1972, Ph.D., 1973, Ohio State University
- Knox B. Wasley (1981)** **Associate Professor of Information Systems**
B.S., 1972, M.B.A., 1976, University of Colorado
- Dale Weaver (1998)** **Assistant Professor of Social Work**
A.B., 1973, University of California, Berkeley; M.S.W., 1984, University of Southern California; Ph.D., 1994, University of California, Los Angeles
- Yehudi Webster (1993)** **Associate Professor of Sociology**
M.S., 1970, Warsaw University, Poland; M.A., 1974, University of London, England; Ph.D., 1977, Warwick University, England
- David J. Weiss (1970)** **Professor of Psychology**
B.A., 1966, University of Pennsylvania; Ph.D., 1973, University of California, San Diego
- Laura L. Whitcomb (1989)** **Associate Professor of Management**
A.B., 1978, M.A., 1985, M.B.A., 1986, Ph.D., 1991, Indiana University
- James H. Wiebe (1983)** **Professor of Education**
B.A., 1967, Fresno Pacific College; M.A., 1974, California State University, Fullerton; Ph.D., 1977, Arizona State University
- David W. Wilkinson (1984)** **Librarian, User Services**
B.A., 1978, California State University, Fresno; M.B.A., 1980, M.L.S., 1984, University of California, Los Angeles
- Rhea P. Williams (1989)** **Professor of Nursing**
B.S., 1972, California State College, Los Angeles; M.N., 1974, Ph.D., 1987, University of California, Los Angeles; R.N., California, 1962; P.H. Nurse, California
- Erika G. Wilson (1968)** **Professor of Economics and Religious Studies**
Degree in Philosophy, 1956, University of Freiburg, Germany; B.A., 1958, Los Angeles State College; M.A., 1962, Ph.D., 1971, University of California, Los Angeles; Ph.D., 1979, University of Southern California
- Andrew J. Winnick (1996)** **Associate Vice President for Academic Affairs and Professor of Economics**
B.A., 1961, University of California, Berkeley; M.A., 1967, Ph.D., 1971, University of Wisconsin, Madison
- Gay Yuen Wong (1989)** **Associate Professor of Education**
B.A., 1975, University of California, Los Angeles; Ph.D., 1995, University of Southern California
- Patricia Woodlin (1993)** **Assistant Professor of Art**
B.A., 1978, M.A., 1979, California State University, Los Angeles; Ph.D., 1995, Union Institute
- John C. Woolum (1970)** **Professor of Physics**
B.A., 1960, University of Colorado; Ph.D., 1965, Cornell University
- Chivey C. Wu (1983)** **Professor of Mechanical Engineering**
B.S.M.E., 1976, National Cheng Kung University, Taiwan; M.S.M.E., 1979, Ph.D., 1983, University of Illinois
- Lifan Wu (1998)** **Assistant Professor of Finance**
M.A., 1986, Nankai University, People's Republic of China; Ph.D., 1994, University of Illinois
- Qingyun Wu (1991)** **Associate Professor of Chinese**
B.A., 1975, Kaifeng Teachers' University, People's Republic of China; M.A., 1987, Southern Illinois University at Carbondale; Ph.D., 1991, Pennsylvania State University
- Ying Xu (1992)** **Associate Librarian, User Services**
B.A., 1978, Fudan University, People's Republic of China; M.A., 1985, Leeds University, England; M.L.S., 1989, Rutgers University
- Ping Yao (1997)** **Assistant Professor of History**
B.A., 1982, Eastern Normal University, Shanghai, People's Republic of China; M.A., 1984, Fudan University, People's Republic of China; M.A., 1992, Ph.D., University of Illinois at Urbana-Champaign
- Eri F. Yasuhara (1982)** **Associate Dean, School of Arts and Letters, and Professor of Japanese**
B.A., 1970, M.A., 1972, Ph.D., 1982, University of California, Los Angeles
- Lamont Yeakey (1982)** **Associate Professor of History**
B.A., 1967, M.A., 1969, Roosevelt University; M.A., 1970, M.Phil., 1978, Ph.D., 1979, Columbia University
- Jong-Hwan Yi (1996)** **Assistant Professor of Finance and Law**
B.A., 1990, M.A., 1990, University of Chicago; Ph.D., 1997, University of Southern California
- Killian P. H. Ying (1988)** **Chair and Professor of Geography and Urban Analysis**
B.S., 1979, University of Houston; M.A., 1980, Ph.D., 1985, Ohio State University
- Mann J. Yoon (1991)** **Associate Professor of Economics and Statistics**
B.A., 1983, Yonsei University, Korea; M.S., 1985, Indiana State University; Ph.D., 1991, University of Illinois
- Angela M. Young (1997)** **Assistant Professor of Management**
B.S., 1984, University of Nebraska; M.B.A., 1992, California State University, Sacramento; Ph.D., 1997, Florida State University
- DeAnn Marie Young (1969)** **Professor of Nursing**
B.S.N., 1960, Ohio State University; M.S.N., 1969, University of Cincinnati; R.N., 1969, California
- Margo Young (1998)** **Associate University Librarian**
B.S., 1975, University of Alberta, Canada; M.S., 1977, Simmons College
- Eui-Young Yu (1968)** **Professor of Sociology**
B.A., 1961, Seoul National University, Korea; M.A., 1966, Ph.D., 1969, University of Pennsylvania
- Vicente S. Zapata (1978)** **Professor of Health Science**
M.P.H., 1964, University of Michigan; Ed.D., 1965, University of Ecuador; D.P.H., 1976, University of California, Los Angeles
- Marlene Zepeda (1990)** **Associate Professor of Child Development**
B.A., 1972, California State College, Los Angeles; M.A., 1978, Ph.D., 1984, University of California, Los Angeles
- Andrea G. Zetlin (1989)** **Professor of Education**
B.A., 1972, Queens College, City University of New York; M.A., 1973, New York University; Ed.D., 1977, Columbia University Teachers' College
- Feimeng Zhou (1997)** **Assistant Professor of Chemistry**
B.S., 1984, Wuhan University, People's Republic of China; Ph.D., 1993, University of Texas at Austin

Emeriti Faculty

(Corrected as of July 1, 1999. Years in parentheses indicate term of service.)

Edward Abood (1963–1991)	Professor of English	Richard G. Cannicott (1959–1983)	Professor of Psychology
Leonard L. Adams (1951–1983)	Professor of Physical Education	Samuel M. Caplin (1960–1980)	Professor of Botany
Sidney P. Albert (1956–1979)	Professor of Philosophy	Brian Capon (1961–1992)	Professor of Biology
Laird B. Allison (1956–1983)	Professor of Management	Roland L. Carpenter (1968–1994)	Professor of Physics
Daniel A. Amneus (1950–1986)	Professor of English	E. Dale Carter (1966–1997)	Professor of Spanish
Constance E. Amsden (1961–1984)	Professor of Education	Phillip L. Carter (1970–1988)	Associate Professor of Social Work
Henry S. Ang (1965–1991)	Professor of Marketing	Joseph Casanova, Jr. (1961–1994)	Professor of Chemistry
Thomas Annese (1961–1992)	Professor of Philosophy	Matilde O. Castells (1969–1986)	Professor of Spanish
Ratna Appadurai (1969–1987)	Professor of Education	Berken Chang (1969–1996)	Professor of Physics
Walter M. Askin (1956–1992)	Professor of Art	Emily C. Chang (1959–1983)	Professor of Accounting
Alfred F. Michael Atlee (1965–1986)	Professor of Spanish	Doris C. Ching (1962–1991)	Professor of Education
John M. Austin (1960–1982)	Professor of Education	Charles L. Clark (1957–1981)	Professor of Mathematics
Jerry Reed Ball (1989–1992)	Professor of Physical Education	Lawrence Clark (1960–1992)	Professor of Business Law
Frank R. Balle (1992–1998)	Professor of Civil Engineering	Harry C. Coffin (1960–1980)	Professor of Geography
Cornelia Balogh (1962–1989)	Associate Librarian	Irving J. Cohen (1959–1988)	Associate Librarian
Richard S. Balvin (1956–1990)	Professor of Psychology	Ivan P. Colburn (1964–1990)	Professor of Geology
Evelyn Malkin Barclay (1957–1969)	Professor of Nursing	William M. Cole (1964–1992)	Professor of Safety Studies
Francis H. Baxter (1950–1978)	Professor of Music	Alan A. Colville (1962–1996)	Professor of Geology
Pollyanne Baxter (1988–1998)	Associate Professor of Music	Webster E. Cotton (1966–1997)	Professor of Education
Walter S. Beaver (1956–1984)	Professor of Theatre Arts	Clifford J. Craft (1977–1987)	Professor of Accounting
Eugene Benedetti (1950–1980)	Professor of Education	Leslie Cromwell (1953–1980)	Dean, School of Engineering, and Professor of Electrical Engineering
Robert B. Benoit (1965–1990)	Professor of Education	Morton J. Cronin (1955–1987)	Professor of English
Philip B. Bergfield (1966–1982)	Professor of Finance and Business Law	Douglas L. Currell (1957–1991)	Professor of Chemistry
Norman D. Berke (1966–1992)	Professor of Education	John A. Dahl (1955–1983)	Professor of Education
Isaac Berman (1965–1988)	Professor of Education	Saralyn R. Daly (1962–1988)	Professor of English
V. Patricia Beyer (1973–1990)	Professor of Education	Peter Marc Damien (1972–1992)	Professor of Art
Nancy J. Billett (1975–1985)	Professor of Business Education and Office Administration	Shirlee D. Davis (1967–1992)	Professor of Education
David Bilovsky (1956–1979)	Professor of Education	Janice E. Day (1960–1986)	Professor of Dance
Evan E. Black (1983–1991)	Librarian	Bruce Dayton (1965–1980)	Professor of Physics
Henry Etta Brown Blackmon (1968–1986)	Professor of Nursing	Phoebe K. Dea (1976–1996)	Professor of Chemistry
Robert E. Blackmon (1960–1986)	Professor of Journalism	Marion V. Dearman (1971–1992)	Professor of Sociology
Carlton Blanton (1970–1999)	Professor of Health Science	Louis C. De Armond (1950–1979)	Professor of History
Miriam M. Blomquist (1966–1980)	Professor of Nursing	Cameron Scott Deeds (1951–1985)	Professor of Physical Education
Keith R. Blunt (1967–1994)	Professor of Management	John H. DeHardt (1961–1992)	Professor of Mathematics
James A. Bolton (1969–1997)	Professor of Education	Patricia A. Delaney (1962–1994)	Professor of Recreation
Irvin Borders (1951–1971)	Professor of Journalism	Earl W. Denny (1959–1983)	Associate Dean, School of Education, and Professor of Education
Charles E. Borman (1960–1992)	Professor of Art	Donald O. Dewey (1962–1996)	Dean, School of Natural and Social Sciences, and Professor of History
George B. Bouse (1959–1994)	Professor of Electrical Engineering	Harry Diamond (1960–1979)	Professor of Criminal Justice
Amy G. Brainard (1961–1972)	Professor of Art	Robert J. Diamond (1958–1981)	Professor of Mathematics
Gerhard H. Brand (1960–1992)	Professor of English	Geraldine Dimondstein (1972–1989)	Professor of Art
Roger D. Brandt (1962–1998)	Professor of Electrical Engineering	Wachtang Djobadze (1968–1988)	Professor of Art
Donald W. Bray (1961–1997)	Professor of Political Science	Cortland C. Doan (1965–1989)	Professor of Technology
Charles E. Brinkley (1961–1991)	Librarian	Robert L. Douglass (1951–1987)	Professor of Communication Disorders
Allen P. Bristow (1959–1983)	Professor of Criminal Justice	Eugene P. Dvorin (1958–1992)	Professor of Political Science
Helen Brocklehurst (1960–1971)	Counselor and Associate Professor of Education	H. Leonard Edmondson (1964–1986)	Professor of Art
Richard K. Brome (1962–1987)	Senior Assistant Librarian	Louis W. Eggers, Jr. (1962–1991)	Professor of Electrical Engineering
Harold C. Brown (1966–1992)	Professor of Education	Perry L. Ehlig (1956–1992)	Professor of Geology
Millie Burnett (1978–1998)	Professor of Music	Annette Ehrlich (1969–1994)	Professor of Psychology
Richard Dean Burns (1960–1992)	Professor of History	Robert A. Eisenberg (1967–1992)	Professor of Education
Donald R. Burrill (1962–1992)	Professor of Philosophy	Norman L. Ellenberg (1969–1991)	Professor of Education
George Burstein (1979–1992)	Professor of Management	Patricia Wright Ellis (1970–1986)	Professor of Family Studies and Consumer Sciences
H. Randall Butler (1954–1985)	Associate University Librarian		
Robert Bascom Callahan (1960–1983)	Professor of Political Science		

- Ray Engelke (1964–1983) Associate Librarian
- Robert H. Ewald (1957–1986) Professor of Anthropology
- Sarah P. Farnham (1971-1996) Professor of Nursing
- Marlene Farrell (1963-1998) Professor of Nursing
- Raymond E. Fausel (1962–1990) Professor of Technology
- Robert L. Fennessy (1965-1992) Professor of Health Science
- Lloyd N. Ferguson (1965–1986) Professor of Chemistry
- Otto W. Fick (1956–1982) Professor of English
- Robert R. Fiedler (1961-1997) Professor of Art
- Eugene R. Fingerhut (1962-1997) Professor of History
- Anita H. Fisher (1956–1980) Professor of Physical Education
- Robert J. Forbes (1956–1978) Professor of Education
- Robert M. Fowells (1962–1988) Professor of Music
- Alfred H. Fritz (1971–1988) Professor of Mechanical Engineering
- Norman Fruman (1959–1980) Professor of English
- Jewell L. Garner (1961–1982) Professor of Education
- Vincent A. Giroux (1957–1984) Professor of Electrical Engineering
- Phillip L. Gold (1967-1984) Professor Of Mechanical Engineering
- Edward M. Goldberg (1961-1996) Professor of Political Science
- Herbert Goldenberg (1955–1986) Professor of Psychology
- Lawrence P. Goodman (1961-1994) Professor of Theatre Arts
- Leonard Gordon (1962–1987) Associate Librarian
- Mary Gormly (1962–1983) Librarian
- G. Douglas Gourley (1957–1977) Professor of Criminal Justice
- Richard C. Grace (1969–1992) Professor of Criminal Justice
- Gloria S. Graham (1959–1986) Professor of Education
- Thomas M. Graham (1959–1992) Professor of Psychology
- Evelyn B. Granville (1967–1984) Professor of Mathematics
- Thelma Graves (1951–1963) . Assistant Professor of Home Economics
- Marilyn W. Greenberg (1974-1992) Professor of Education
- Michael F. Grisafe (1956–1975) Professor of Accounting
- Edward O. Guerrant (1954–1980) Professor of History
- Reid J. Gunnell (1958-1992) Professor of Physical Education
- George A. Gustafson (1970–1983) Professor of Accounting
- Byron Guyer (1955–1978) Professor of English
- Iris Timson Gwinn (1956–1972) Professor of Education
- Charles M. Haberman (1959–1991) Professor of Mechanical Engineering
- Martha L. Hackman (1960–1977) Librarian
- Robert G. Hadley (1965-1992) Professor of Education
- Robert O. Hahn (1956–1980) Professor of Education
- Harold D. Hall (1956–1980) Professor of Education
- Harry S. Hall (1965–1990) Professor of Political Science
- Edmond C. Hallberg (1965–1994) Professor of Education
- Louis A. Hansen (1956–1980) Professor of Music
- William R. Hanson (1960–1987) Professor of Biology
- John V. Haralson (1951–1980) Professor of Psychology
- Timothy Fox Harding (1963–1994) Professor of History
- James W. Harvey (1955–1971) . Professor of Botany and Nature Study
- Audrey Graff Hawk (1960–1981) Associate Librarian
- Harry S. Hayashi (1965-1992) Professor of Mathematics
- Leonard W. Hein (1956–1983) Professor of Accounting
- Jack C. Heppe (1949–1977) Director of Campus Development
- John W. Hermann (1966–1990) Professor of Physical Education
- Udo Heyn (1969-1998) Professor of History
- William H. Hill (1973–1992) Professor of Music
- Anthony Hillbruner (1954–1980) .. Professor of Speech Communication
- Kenneth F. Hird (1974-1994) Professor of Technology
- Patricia M. Hodges (1970–1986) Professor of Psychology
- Virginia Hoffman (1952–1987) Professor of Art
- Stanley D. Hopper (1957-1991) Professor of Political Science
- John L. Houk (1971–1983) Professor of Political Science
- Robert Howard (1966-1996) Professor of Electrical Engineering
- Jackie L. Hoyt (1958-1992) Professor of Physical Education
- Ke Ting Hsia (1963–1989) Professor of Economics and Statistics
- Mary W. Huber (1952–1971) Professor of Speech
- Donald E. Hudson (1964–1983) Professor of Physics
- Roland D. Hutchinson (1950–1983) Associate Professor of Psychology
- Charles J. Inacker (1974-1991) Dean, School of Business and Economics, and Professor of Office Systems and Business Education
- Pamela D. Jablonsky (1978-1996) Professor of Technology
- Raleigh Jackson (1973-1992) Professor of Education
- David L. Jacobsohn (1960–1983) Professor of Health and Safety Studies
- Sigmund Jaffe (1958–1986) Professor of Chemistry
- George E. Jakway (1961-1991) Associate Professor of Biology
- Colleen Jamison (1965-1997) Professor of Education
- JoAnn Johnson (1968-1997) Professor of Nursing
- Joan D. Johnson (1955-1992) Professor of Physical Education
- Lois V. Johnson (1950–1976) Professor of Education
- John O. Jones (1964–1991) Professor of Education
- Kazumitsu Kato (1963-1992) Professor of Japanese
- Hugh W. Kennedy (1963-1988) Professor of Spanish
- Richard T. Keys (1959-1996) Professor of Chemistry
- Hendrik Keyzer (1967-1995) Professor of Chemistry
- Donald I. Kiel (1960-1992) Professor of Mathematics and Computer Science
- Byong-Kon Kim (1968–1994) Professor of Music
- Eloise M. King (1960–1988) Professor of Nursing
- Wanda L. King (1965–1980) Professor of Nursing
- Dale L. Knapp (1959-1995) Professor of Education
- William A. Knoke (1970–1982) Professor of Marketing
- MaryLynne Knutson (1972–1992) Professor of Office Systems and Business Education
- Mary A. Kramer 1972–1991) Associate Professor of Family Studies and Consumer Sciences
- Robert D. Kully (1956–1992) Professor of Speech Communication
- David Laird (1958–1990) Professor of English
- Herbert J. Landar (1960–1991) Professor of English
- John LaMonica (1956–1980) Professor of Industrial Studies
- Roderick Langston (1952–1982) Professor of Education
- Jean Utley Lehman (1963–1974) Professor of Education
- Vernon F. Leidig (1950–1982) Professor of Music
- John M. Leiman (1967–1983) Associate Professor of Psychology
- Marilynn A. Lemon (1966–1988) Professor of Nursing
- Seymour Levitan (1961–1992) Professor of Psychology
- Jane Sanford Lewis (1968–1991) Professor of Family Studies, and Consumer Sciences
- Robert T. Lewis (1952–1982) Professor of Psychology
- Charles F. Leyba (1965-1992) Professor of Education
- Harold E. Lionetti (1956–1982) Professor of Spanish
- Jasper Little (1978–1992) Professor of Education
- Peter P. Lockett (1969–1994) Professor of Accounting
- William F. Long (1967–1983) Associate Director of Institutional Research
- Donald C. Lowrie (1956–1972) Professor of Zoology
- Irwin Lublin (1965-1992) Professor of Psychology
- Daniel Mahoney (1972-1998) Associate Professor of Biology
- Donald G. Malcolm (1972–1981) Dean, School of Business and Economics, and Professor of Management
- Edward A. Maljanian (1963–1991) Professor of Health Science

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- Jean Maloney (1960–1984) Professor of English
- George E. Mann (1957–1980) Professor of Mechanical Engineering
- M. Morris Mano (1960–1990)..... Professor of Electrical Engineering
- Judith S. Margolis (1973-1992) Professor of Education
- Catherine Martin (1970-1996)..... Professor of Anthropology
- Mildred G. Massey (1960–1986)..... Professor of Economics
- Leonard G. Mathy (1950–1983)..... Professor of Economics
- Michael J. Maurer (1970-1997).... Professor of Mechanical Engineering
- C. Lamar Mayer (1965-1992) Associate Dean, School of Education, and
Professor of Education
- William A. Mays (1956–1980).....Professor of Industrial Education
- Vincent Mazzucchelli (1971-1996)..... Professor of Geography
- Malcolm A. McClain (1965–1988)..... Professor of Art
- Richard McComb (1979-1992) Professor of Music
- Paul T. McElhiney (1968–1983)..... Professor of Marketing
- Thomas McEnroe (1960–1985) Professor of Political Science
- Margaret E. McWilliams (1961-1992). Professor of Family Studies and
Consumer Sciences
- Robert F. Meade (1960-1993)..... Professor of Geology
- Jay M. Metcalf (1960–1977) Professor of Art
- Milton W. Meyer (1959–1986).....Professor of History
- Maxine L. Miller (1955–1980)..... Professor of Home Economics
- Robert A. Miller (1966-1997)..... Professor of Physical Education
- Frederic E. Mints (1970–1981) Professor of Accounting
- Arthur J. Misner (1955–1983) Professor of Political Science
- Marguerite Mochel (1949–1973) Professor of Physical Education
- Irene M. Molloy (1972–1990) Professor of Nursing
- Lorraine Monnin (1960–1991)... Professor of Communication Disorders
- Raquel Montenegro (1969–1992) Professor of Education
- Donald A. Moore (1956–1982)... Professor of Economics and Statistics
- Alfredo O. Morales (1965–1989)..... Professor of Spanish
- Fernando B. Morinigo (1963–1990) Professor of Physics
- Robert R. Morman (1956–1991) Professor of Education
- Robert H. Morneau, Jr. (1977–1988) Professor of Criminal Justice
- Donald G. Mortensen (1949–1978).....Dean, School of Fine and
Applied Arts, and Professor of Education
- Herbert Moskowitz (1962–1985) Professor of Psychology
- Anthony Moye (1962-1996)..... Professor of Chemistry
- Paul T. Mu (1969–1992) Professor of Economics and Statistics
- Edward A. Nelson (1959–1980)..... Professor of Finance
- Helen Isabel Nicklin (1964–1986)..... Professor of Education
- Arthur H. Niehoff (1968–1986) Professor of Anthropology
- Donald A. Nielsen (1968–1992)..... Professor of Education
- Reed E. Nilsen (1955–1985)..... Professor of Physical Education
- Naoma P. Norton (1961–1974)..... Professor of Home Economics
- Freda V. O'Bannon-Lemmi (1968-1998)..... Professor of Nursing
- Dorothy A. O'Brien (1951–1969)..... Professor of Recreation Education
- Helen M. O'Connell (1963–1981)..... Professor of Nursing
- Marjorie Elaine O'Leary (1980–1993) ... Associate Professor of Nursing
- Marie Ohlsen (1961–1977) Assistant Professor of English
- Thomas P. Onak (1959-1997) Professor of Chemistry
- Sumiye N. Onodera (1970–1986) Associate Professor of Family Studies
and Consumer Sciences
- Selmer Ostlie (1958–1972) Professor of Education
- Jesse L. Ott (1957–1977) Director, Audiovisual Services, and
Professor–Administration
- June DeBode Oxstein (1962–1986) Professor of Education
- Evan K. Oyakawa (1961-1991)..... Professor of Biology
- Clement Padick (1960-1995) Professor of Geography
- Anne M. Palmer (1953–1971)..... Assistant Professor of Education
- Francoise M. Pasques (1961-1992) Associate Professor of French
- Victor Payse, Jr. (1959–1983) Professor of Electrical Engineering
- Mary Alice Peairs (1952–1972)..... Librarian
- Esther Penchef (1948–1973)..... Professor of Sociology
- Elba Torres de Peralta (1967-1992)..... Professor of Spanish
- Earl H. Phillips (1966–1986) Professor of History
- Gray Phillips (1962–1992) Professor of Art
- Kenneth Phillips (1971–1986)..... Professor of Technology
- Arnold Pincus (1961-1992) Assistant Professor of History
- Stanley H. Pine (1964-1998)..... Professor of Chemistry
- William G. Plumtree (1955–1982)..... Professor of Civil Engineering
- Morris Polan (1955–1988) University Librarian
- Vilma Potter (1961–1992)..... Professor of English
- Kenneth J. Pratt (1958-1992)..... Professor of History
- Lamar Price (1964–1986) Professor of Education
- Gerald Prindiville (1949–1976)..... Professor of Education
- Neil Rabitoy (1968–1991) Professor of History
- Carolyn Radakovich (1970-1997)..... Professor of Art
- Gerald R. Rasmussen (1964–1989) Professor of Education
- John W. Rathbun (1956–1990)..... Professor of English
- Rashad E. Razouk (1972–1979)..... Professor of Chemistry
- John D. Rees (1968-1997)..... Professor of Geography
- Robert D. Reeser (1971–1994) Associate Dean, School of Arts Letters,
and Professor of Art
- Warren E. Reeves (1950–1982) Professor of Physical Education
- Fred M. Reinman (1967–1989)..... Professor of Anthropology
- Lois M. Rhinesperger (1959–1981)..... Professor of Home Economics
- Fred G. Rhodes (1954–1980) Professor of Education
- Patricia Richard-Amato (1984–1991)..... Professor of Education
- Sidney Richman (1962–1992) Professor of English
- Richard D. Roberto (1966-1999).. Professor of Mechanical Engineering
- Edythe Rodriguez (1952–1983) Associate Professor of Education
- M. Richard Roseman (1970-1996) Professor of Economics and Statistics
- J. Murray Ross (1965–1992) Librarian
- Julian B. Roth (1956–1980) Professor of Education
- Paul K. Rowan (1956–1990)..... Professor of Sociology
- Thomas A. Rusch (1959–1980)..... Professor of Political Science
- Mercer Price Russell (1964–1992) Professor of Biology
- Clarence K. Sandelin (1949–1983)..... Professor of English
- Ake Sandler (1949–1980)..... Professor of Political Science
- Pauline E. Schatz (1969–1983) Professor of Home Economics
- Ben F. Scherer (1963–1986) Professor of Safety Studies
- Jeanne Schnitzler (1959-1997)..... Professor of Art
- Mary L. Schreiber (1967-1992) Professor of Physical Education
- Delwyn G. Schubert (1950–1988)..... Professor of Education
- Inez R. Schubert (1955–1983)..... Professor of Music
- Howard Schug (1958–1971) Professor of Electrical Engineering
- Leon Schwartz (1959–1987) Professor of French
- Janet A. Seaman (1972-1997)..... Professor of Physical Education
- Burton M. Seidler (1965–1990)..... Professor of Physical Education
- Joseph T. Seto (1960–1988) Professor of Microbiology
- Gordon B. Severance (1956–1980) Professor of Business Law
- Fred J. Shanley (1965–1980) Professor of Sociology
- Carleton B. Shay (1962–1989) Associate Dean, School of Education and
Professor of Education
- Lilly Shen (1963–1992) Professor of Family Studies and Consumer
Sciences
- Mary Elizabeth Shutler (1988–1994)..... Provost and Vice President for
Academic Affairs and Professor of Anthropology
- Gunjit Sikand (1958–1981) Professor of Civil Engineering

Ronald H. Silverman (1955–1988).....	Professor of Art
Robert H. Simmons (1962–1985)	Professor of Political Science
Patricia Bates Simun (1968–1991)	Professor of Education
Katherine Sistrom (1956–1971)	Assistant Professor of Education
Carol J. Smallenburg (1950–1985)	Professor of Education
Arthur L. Smith (1957–1992).....	Professor of History
Marjorie M. Smith (1959–1979).....	Professor of Theatre Arts
Keith D. Snyder (1953–1976)	Professor of Music
Bernard J. Somers (1960–1983).....	Professor of Psychology
Gerald F. Sorrensen (1958–1985)	Professor of Economics
Frieda A. Stahl (1959-1992).....	Professor of Physics
J. Leonard Steinberg (1962-1992)	Professor of Education
Milton Stern (1960-1992)	Professor of Music
Judith E. Stevens-Long (1971-1993)	Professor of Psychology
Virgil H. Stevens (1963–1985) Associate Professor of Political Science	
Harold Storch (1955–1987).....	Professor of Electrical Engineering
Robert Strassburg (1971–1983).....	Professor of Music
Richard M. Straw (1956–1981)	Professor of Biology
Kenneth S. Strobel (1955–1975)	Associate Director of Photographic Services, Audio–Visual Center
Gaby Stuart (1964–1991)	Professor of English
Joseph Stubbins (1959–1980)	Professor of Education
Vito G. Susca (1964–1991)	Professor of Music
Rose-Marie Swallow (1970–1992)	Professor of Education
R. Carol Sweeney (1986–1994).....	Professor of Education
Kenneth N. Sweetnam (1957–1983).....	Director, Instructional Media Services, and Professor of Industrial Studies
Ellenore C. Takeda (1959–1978)	Librarian
Lydia M. Takeshita (1955–1989).....	Professor of Art
Elfleda J. Tate (1966–1983).....	Professor of Education
Norwood Teague (1958–1977)	Professor of Industrial Studies
Olga A. Termini (1972-1996)	Professor of Music
Raymond D. Terrell (1973–1992).....	Dean, School of Education, and Professor of Education
F. Annette Tessier (1969–1986)	Professor of Education
Ralph Thomlinson (1959–1988).....	Professor of Sociology
Alice C. Thompson (1950–1979)	Professor of Psychology
Albert A. Tillman (1956–1984)	Professor of Recreation
Maurine Timmerman (1950–1974).....	Professor of Music
William S. Ting (1969–1979)	Professor of Geography
John A. Tomaske (1965-1997) ..	Professor of Economics and Statistics
Roy Tozier (1952–1965)	Professor of Education
Nathaniel Trives (1969-1997).....	Professor of Criminal Justice
Alvin E. Tuohino (1956–1976)	Professor of Accounting
Sarah Winifred Utz (1969–1992)	Professor of Nursing
Philip D. Vairo (1973–1982)	Dean, School of Education, and Professor of Education
Velma J. Vance (1956–1991)	Professor of Biology
Robert C. Verkler (1970–1988).....	Professor of Information Systems
Richard J. Vogl (1961–1994)	Professor of Biology
William C. Waddell (1967–1992)	Professor of Management
Patricia L. Wagner (1962-1996).....	Professor of Physical Education
Marian E. Wagstaff (1952–1976)	Professor of Education
Roy H. Walden (1967–1992)	Professor of Art
H. Jean Waldrop (1962–1986).....	Professor of Marketing
Edwin Wandt (1954–1983)	Professor of Education
Wen L. Wang (1967-1996)	Professor of Civil Engineering
Beverly Y. Warner (1953–1975)	Professor of Physical Education
Alice V. Watkins (1969-1995)	Associate Dean, School of Education, and Professor of Education
John H. Weston (1971–1992).....	Professor of English
Lee J. Wexler (1959–1986).....	Professor of Art
Patricia M. White (1962–1982)	Professor of Physical Education
William E. R. Whiteley (1958–1986)	Professor of Health Science
Patti W. Schliestett Wiggins (1956–1990).....	Professor of Music
William E. Wilgus (1963–1992)	Professor of Physical Education
George W. Willott (1950–1977)	Professor of Recreation
Joan B. Wilson (1981–1992)	Professor of Education
Hubert C. Winkler (1968–1979)	Professor of Physics
Jeannette R. Witucki (1967–1986).....	Professor of Anthropology
John B. Wood (1962-1999)	Librarian, Reference
Emil Wroblicky (1956–1987).....	Professor of Physical Education
Ruth R. Wu (1971-1995).Dean, School of Health and Human Services, and Professor of Nursing	
Kenneth Wynsma (1962–1980)	Associate Professor of Art
Fleur B. Yano (1964-1996)	Professor of Physics
Paul M. Zall (1957–1986).....	Professor of English
Wayne S. Zimmerman (1961–1980).....	Professor, Counseling Center
Wanna M. Zinsmaster (1962–1992)	Professor of Education
Marie-Antoinette U. Zrimc (1964–1992)	Professor of French

The California State University System

The California State University

Map of CSU Office and Campus Locations

CSU Officials

CSU Campuses

The California State University

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972, the system became The California State University and Colleges (CSUC) and in 1982, the system became The California State University (CSU).

The oldest campus, San Jose State University, was founded as a "normal school" in 1857 and became the first institution of public higher education in California. California State University, Monterey Bay became the CSU's 21st campus in September 1994. The California Maritime Academy in Vallejo, founded in 1929, joined the CSU as its 22nd campus in July 1995. The CSU's 23rd campus—California State University, Channel Islands—is in the planning stage to serve students in the Ventura County region.

Responsibility for The California State University is vested in the Board of Trustees, consisting of ex-officio members, alumni and faculty representatives, and members appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

The Trustees, the Chancellor, and the Presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the Chancellor.

Academic excellence has been achieved by The California State University through a distinguished faculty, whose primary responsibility is superior teaching. Although each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require, for graduation with the baccalaureate, a basic program of general education requirements regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers more than 1,600 bachelor's and master's degree programs in some 240 subject areas. Many of these programs are offered so that students can complete all upper division and graduate requirements by part-time late afternoon and evening study, or by distance learning from home or work via computer or television. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

Enrollments in fall 1998 totaled more than 350,000 students, who are taught by more than 18,000 faculty. The system awards more than half of the bachelor's degrees and 30 percent of the master's degrees granted in California. Some 1.7 million persons have been graduated from CSU campuses since 1960.

Officials of the California State University

Office of the Chancellor

The California State University
401 Golden Shore, 4th Floor
Long Beach, CA 90802-4210
(562) 951-4000

Dr. Charles B. Reed..... Chancellor - CSU System
Dr. David Spence.....Executive Vice Chancellor
Mr. William DermodyChief of Staff
Dr. Charles W. LindahlInterim Senior Vice Chancellor,
Academic Affairs
Mr. Sam StrafaciInterim Senior Director, Human Resources
Mr. Richard West..... Senior Vice Chancellor, Business
and Finance
Dr. Douglas X. Patiño Vice Chancellor, University
Advancement
Ms. Christine Helwick..... General Counsel

The CSU Board of Trustees

In adopting the Donahoe Higher Education Act of 1960, the State Legislature established the Board of Trustees of The California State College (designated "The California State University" on Jan. 1, 1982) to "succeed to the powers, duties and functions with respect to the management, administration and control of the state colleges." Prior to this, the State Board of Education had jurisdiction over the separate colleges.

The Donahoe Act also restructured the individual campuses into the nation's largest system of senior higher education. The Board of Trustees governs this diverse and complex 23-campus system by:

1. Developing broad administrative policy for the campuses
2. Providing broad direction and coordination to campus curricular development
3. Overseeing the efficient management of funds, property, facilities and investments by the system and the campuses
4. Appointing the Chancellor and Vice Chancellors for the system, and the Presidents for the campuses as chief executives with certain delegated responsibilities
5. Communicating to the people of California an understanding and appreciation of the current effectiveness and the future needs of the California State University.

Under present law there are 24 voting Trustees. Five Trustees are ex officio members: the Governor, Lieutenant Governor, Speaker of the Assembly, State Superintendent of Public Instruction, and the Chancellor. The Alumni Trustee is appointed by the CSU Statewide Alumni Council. The Student and Faculty Trustee are appointed by the Governor from nominees proposed by the California State Student Association and the Statewide Academic Senate respectively. The Student, Alumni, and Faculty Trustees serve for two years. The sixteen remaining Trustees are appointed by the Governor, confirmed by the State Senate, and serve for eight years. Trustees remain on the Board until a replacement is named or 60 days after their term expires.

The Governor is designated as the President of the Board; the Chancellor serves as Secretary-Treasurer. Other officers,

including the Board's Chair and Vice Chair, are elected by Board members for one-year terms. One Trustee serves as representative to the California Postsecondary Education Commission.

Currently there are nine standing committees of the Board: Audit; Campus Planning, Buildings and Grounds; Collective Bargaining; Educational Policy; Finance; Governmental Relations; Institutional Advancement; Organization and Rules; and University and Faculty Personnel.

Board meetings are held in the headquarters building in Long Beach six times a year. Board meetings are arranged to allow for public comment and also to promote communication between the Trustees and campus Presidents, Executive Committee members of the Statewide Academic Senate, representatives of the California State Student Association, and officers of the Statewide Alumni Council.

The Donahoe Act - which grew out of the recommendations contained in A Master Plan for Higher Education in California, 1960-1975 - was added to the California Education Code as Division 16.5. Along with Division 18 of the Code, it defines the composition, appointments, terms, powers, and functions of the Board of Trustees.

Section 89030 of the Code provides that "the Trustees shall adopt rules and regulations not inconsistent with the laws of this State for: a) the government of the Trustees, b) the government of their appointees and employees, c) the government of the California State University." Section 66607 stipulates that "The California State University shall be entirely independent of all political and sectarian influence and kept free therefrom in the appointment of its Trustees and in the administration of its affairs."

List of CSU Board of Trustees

Ex Officio Trustees

The Honorable Gray Davis
Governor of California
State Capitol
Sacramento, CA 95814

The Honorable Cruz Bustamente
Lieutenant Governor of California
State Capitol
Sacramento, CA 95814

The Honorable Antonio Villaraigosa
Speaker of the Assembly
State Capitol
Sacramento, CA 95814

The Honorable Delaine Eastin
State Superintendent of Public Instruction
721 Capitol Avenue
Sacramento, CA 95814

Dr. Charles B. Reed
Chancellor of The California State University
401 Golden Shore
Long Beach, CA 90802-4210

Appointed Trustees

Appointments are made for a term of eight years, except for a student trustee, alumni trustee, and faculty trustee, whose terms are for two years. Terms expire in the year in parentheses.

- Mr. Robert G. Foster(2007)
- Ms. Dee Dee Myers(2007)
- Mr. Anthony M. Vitti.....(2005)
- Mr. Ralph R. Pesqueira.....(2004)
- Mr. William D. Campbell(2003)
- Ms. Martha C. Fallgatter(2003)
- Mr. Laurence K. Gould, Jr.....(2002)
- Mr. Stanley T. Wang(2002)
- Mr. William Hauck.....(2001)
- Mr. Ali C. Razi(2001)
- Dr. Joan Otomo-Corgel.....(2000)
- Mr. Fred Pierce(2000)
- Mr. Michael D. Stennis(2000)
- Dr. Harold Goldwhite.....(1999)
- Mr. Eric Mitchell(1999)

Officers of the Trustees

- Governor Gray Davis.....President
- Mr. William Hauck Chair
- Dr. Joan Otomo-Corgel Vice Chair
- Christine Helwick.....Secretary
- Richard West Treasurer

Correspondence with Trustees should be sent to:
c/o Trustees Secretariat
The California State University
401 Golden Shore
Long Beach, CA 90802-4210

Campuses of the California State University

California State College, Bakersfield

9001 Stockdale Highway
Bakersfield, CA 93311-1099
Dr. Tomás A. Arciñiega, President
(805) 664-2011

California State University, Channel Islands

P.O. Box 2862
Camarillo, CA 93011-2862
Mr. J. Handel Evans, Acting President
(805) 383-8400

California State University, Chico

400 West First Street
Chico, CA 95929-0150
Dr. Manuel A. Esteban, President
(916) 898-6116

California State University, Dominguez Hills

1000 East Victoria Street
Carson, CA 90747-0005
Dr. James E. Lyons, Sr., President
(310) 243-3300

California State University, Fresno

5241 North Maple Avenue
Fresno, CA 93740
Dr. John D. Welty, President
(209) 278-4240

California State University, Fullerton

800 North State College Boulevard
Fullerton, CA 92834-9480
Dr. Milton A. Gordon, President
(714) 278-2011

California State University, Hayward

25800 Carlos Bee Blvd.
Hayward, CA 94542
Dr. Norma S. Rees, President
(510) 881-3000

Humboldt State University

1 Harpst Street
Arcata, CA 95521-8299
Dr. Alistair W. McCrone, President
(707) 826-3011

California State University, Long Beach

1250 Bellflower Boulevard
Long Beach, CA 90840-0115
Dr. Robert C. Maxson, President
(562) 985-4111

California State University, Los Angeles

5151 State University Drive
Los Angeles, CA 90032
Dr. James M. Rosser, President
(323) 343-3000

California Maritime Academy

200 Maritime Academy Drive
Vallejo, CA 94590
Mr. Jerry Aspland, President
(707) 654-1010

California State University, Monterey Bay

100 Campus Center
Seaside, CA 93955-8001
Dr. Peter P. Smith, President
(831) 582-3330

California State University, Northridge

18111 Nordhoff Street
Northridge, CA 91330
Louanne Kennedy, Interim President
(818) 677-1200

California State Polytechnic University, Pomona

3801 West Temple Avenue
Pomona, CA 91768
Dr. Bob H. Suzuki, President
(909) 869-7659

California State University, Sacramento

6000 J Street
Sacramento, CA 95819
Dr. Donald R. Gerth, President
(916) 278-6011

California State University, San Bernardino

5500 University Parkway
San Bernardino, CA 92407-2397
Dr. Albert K. Karnig, President
(909) 880-5000

San Diego State University

5500 Campanile Drive
San Diego, CA 92182
Dr. Stephen L. Weber, President
(619) 594-5000

San Francisco State University

1600 Holloway Avenue
San Francisco, CA 94132
Dr. Robert A. Corrigan, President
(415) 338-1111

San Jose State University

One Washington Square
San Jose, CA 95192-0001
Dr. Robert L. Caret, President
(408) 924-1000

California Polytechnic State University, San Luis Obispo

1 Grand Avenue
San Luis Obispo, CA 93407
Dr. Warren J. Baker, President
(805) 756-1111

California State University, San Marcos

333 S. Twin Oaks Valley Road
San Marcos, CA 92096-0001
Dr. Alexander Gonzalez, President
(760) 752-4000

Sonoma State University

1801 East Cotati Avenue
Rohnert Park, CA 94928-3609
Dr. Ruben Armiñana, President
(707) 664-2880

California State University, Stanislaus

801 West Monte Vista Avenue
Turlock, CA 95382
Dr. Marvalene Hughes, President
(209) 667-3122

Appendix A - Eligibility Index

The following table is used in determining the eligibility of graduates of California high schools and California legal residents for admission as freshmen at a California State University campus. For an explanation of how the eligibility index works, see *Eligibility Index* in the **Admissions** chapter. Applicants whose grade point average is 3.0 or higher (3.6 for nonresidents) are eligible for admission and exempted from the test requirement, but are urged to take the SAT or ACT because all campuses use the test results for advising and placement purposes. Applicants whose grade point average is lower than 2.0 are not eligible.

The minimum eligibility index for California residents and California high school graduates is 2900 using the SAT and 694 using the ACT score. If you neither graduated from a California high school nor are a legal resident of California for tuition purposes, you need a minimum index of 3502 (SAT) or 842 (ACT). The method used to compute the index is explained below:

SAT: Multiply the grade point average by 800, add it to the total SAT score.

ACT: Multiply the grade point average by 200 and add it to 10 times the composite ACT score.

Eligibility Index Table <i>for</i> California High School Graduates <i>or</i> Residents of California														
GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score	GPA	ACT Score	SAT I Score
3.00 and above qualifies with any score			2.81	14	660	2.60	18	820	2.39	22	990	2.18	26	1160
			2.80	14	660	2.59	18	830	2.38	22	1000	2.17	26	1170
			2.79	14	670	2.58	18	840	2.37	22	1010	2.16	27	1180
2.99	10	510	2.78	14	680	2.57	18	850	2.36	23	1020	2.15	27	1180
2.98	10	520	2.77	14	690	2.56	19	860	2.35	23	1020	2.14	27	1190
2.97	10	530	2.76	15	700	2.55	19	860	2.34	23	1030	2.13	27	1200
2.96	11	540	2.75	15	700	2.54	19	870	2.33	23	1040	2.12	27	1210
2.95	11	540	2.74	15	710	2.53	19	880	2.32	23	1050	2.11	28	1220
2.94	11	550	2.73	15	720	2.52	19	890	2.31	24	1060	2.10	28	1220
2.93	11	560	2.72	15	730	2.51	20	900	2.30	24	1060	2.09	28	1230
2.92	11	570	2.71	16	740	2.50	20	900	2.29	24	1070	2.08	28	1240
2.91	12	580	2.70	16	740	2.49	20	910	2.28	24	1080	2.07	28	1250
2.90	12	580	2.69	16	750	2.48	20	920	2.27	24	1090	2.06	29	1260
2.89	12	590	2.68	16	760	2.47	20	930	2.26	25	1100	2.05	29	1260
2.88	12	600	2.67	16	770	2.46	21	940	2.25	25	1100	2.04	29	1270
2.87	12	610	2.66	17	780	2.45	21	940	2.24	25	1110	2.03	29	1280
2.86	13	620	2.65	17	780	2.44	21	950	2.23	25	1120	2.02	29	1290
2.85	13	620	2.64	17	790	2.43	21	960	2.22	25	1130	2.01	30	1300
2.84	13	630	2.63	17	800	2.42	21	970	2.21	26	1140	2.00	30	1300
2.83	13	640	2.62	17	810	2.41	22	980	2.20	26	1140	Below 2.00 does not qualify for regular admission		
2.82	13	650	2.61	18	820	2.40	22	980	2.19	26	1150			

Graduates of secondary schools in **foreign countries** must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

Appendix B - Determination of Residence for Nonresident Tuition Purposes

The campus Admissions Office determines the residence status of all new and returning students for nonresident tuition purposes. Responses on the application for admission and, if necessary, other evidence furnished by the student are used in making this determination. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a nonresident.

The following statement of the rules regarding residence determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The law governing residence determination for tuition purposes by The California State University is found in California Education Code Sections 68000–68090, 68121, 68123, 68124, and 89705–89707.5, and in Title 5 of the California Code of Regulations, Sections 41900–41912. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

An adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home may establish legal residence. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residence intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax forms on total income; ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining a permanent military address and home of record in California if one is in the military service, etc.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of the student's stay in California.

In general, an unmarried minor (a person under 18 years of age) derives legal residence from the parent with whom the minor maintains or last maintained his or her place of abode. The residence of an unmarried minor who has a parent living cannot be changed by the minor's own act, by the appointment of a legal guardian, or by the relinquishment of a parent's right of control.

A married person may establish his or her residence independent of his or her spouse.

An alien may establish his or her residence, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. An unmarried minor alien derives his or her residence from the parent with whom the minor maintains or last maintained his or her place of abode.

Nonresident students seeking reclassification are required by law to complete a supplemental questionnaire about financial independence.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes. A residence determination date is set for each academic term and is the date from which

residence is determined for that term. The residence determination dates are:

Quarter Term Campuses

Fall Quarter	September 20
Winter Quarter	January 5
Spring Quarter.....	April 1
Summer Quarter	July 1

Semester Term Campuses

Fall Semester	September 20
Winter Semester (Stanislaus only).....	January 5
Spring Semester	January 25

Questions regarding residence determination dates should be directed to the campus Admissions Office which can supply the residence determination date for the quarter for which a student is registering.

There are several exceptions from nonresident tuition, including:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.
2. Minors who have been present in California with the intent of acquiring residence for more than a year before the residence determination date and have been entirely self-supporting for that period of time.
3. Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.
4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception, once attained, is not affected by retirement or transfer of the military person outside the state.
5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception continues until the military personnel has resided in the state the minimum time necessary to become a resident.

6. Effective January 1, 1996, military personnel in active service in California for more than one year immediately prior to being discharged from the military. Eligibility for this exception runs from the date the student is discharged from the military until the student has resided in state the minimum time necessary to become a resident.
7. Dependent children of a parent who has been California resident for the most recent year. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as the student has maintained continuous attendance at an institution.
8. Graduates of any school located in California that is operated by the United States Bureau of Indian Affairs, including, but not limited to, the Sherman Indian High School. The exception continues so long as continuous attendance is maintained by the student at an institution.
9. Certain credentialed, full-time employees of California school districts.
10. Full-time California State University employees and their children and spouses; state employees assigned to work outside the state and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
11. Certain exchange students.
12. Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties.

Any student, following a final decision on campus on his or her residence classification, may only make written appeal to:

The California State University
Office of General Counsel
401 Golden Shore, 4th Floor
Long Beach, CA 90802-4210

within 120 calendar days of notification of the final decision on campus of the classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for further review.

Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the *California Code of Regulations*. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admissions Office. Applications for a change in classification with respect to a previous quarter are not accepted.

The student is cautioned that this summation of rules regarding residence determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant residence determination date.

Appendix C - Average Annual Costs and Fund Sources Per Full-time Equivalent Student

The 23 campuses and the Chancellor's Office of the California State University are financed primarily through funding provided by the taxpayers of California. The total state appropriation to the CSU for 1998–99, (not including capital outlay funding in the amount of \$221,547,000) was \$2,164,046,000. However, the total cost of education for CSU is \$2,918,347,067 which must provide support for a projected 268,320 full-time equivalent students (FTES). The number of full-time equivalent students is determined by dividing the total academic student load by 15 units per term (the figure used here to define a full-time student's academic load).

The total cost of education in the CSU is defined as the expenditures for current operations, including payments made to the students in the form of financial aid and all fully reimbursed programs contained in state appropriations, but excluding capital outlay appropriations. The average cost of education is determined by dividing the total cost by the total FTES. The average cost is further differentiated into three categories: State Support (the state appropriation, excluding capital outlay), Student Fee Support, and Support from Other Sources (including federal funds).

Thus, excluding costs that relate to capital outlay, the average cost of education per FTE student is \$10,876. Of this amount, the average student fee support per FTE is \$1,873. The State University Fee, application fee, and nonresident tuition are included in the average cost paid by the students; individual students may pay less or more than \$1,873, depending on whether they are part-time, full-time, resident, or nonresident students.)

1998/99	Amount	Average Cost per FTE Student	Percentage
Total Cost of Education	\$2,918,347,067	\$10,876	100.0
State Appropriations*	2,164,046,000	8,064	74.2
Student Fee Supported	592,496,191	2,208	20.3
Support from Other Sources	162,155,184	604	5.5
Detail:			
Total State Support (including capital outlay)	2,164,046,000		
Total Support	2,918,347,067		

(including State General Fund appropriation, student fee support and support from other sources)

* Based on final campus budget submissions subsequent to the passage of the Budget Act. Totals may differ slightly from other CSU published amounts.

** Includes supplemental appropriations of \$17.8 million for a 1 percent increase in employee compensation; \$11.5 million for teacher preparation activities; \$77 million in one-time funding for critical need areas (instructional equipment replacement, technology support, libraries, deferred maintenance, teacher recruitment and distance learning); and \$4 million to expand successful CSU student outreach programs. Also includes \$60,861,000 that will be removed as the result of a reduction in retirement rate contributions.

Appendix D - Student Discipline

Inappropriate conduct by students or by applicants for admission is subject to discipline as provided in Sections 41301 through 41304 of Title 5, *California Code of Regulations*. These sections are as follows 41301. Expulsion, Suspension, and Probation of Students.

Following procedures consonant with due process established pursuant to Section 41304, any student of a campus may be expelled, suspended, placed on probation, or given a lesser sanction for one or more of the following causes which must be campus related:

- (a) Cheating or plagiarism in connection with an academic program at a campus.
- (b) Forgery, alteration, or misuse of campus documents, records, of identification or knowingly furnishing false information to a campus.
- (c) Misrepresentation of oneself or of an organization to be an agent of a campus.
- (d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.
- (e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his or her family or the threat of such physical abuse.
- (f) Theft of, or nonaccidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.
- (g) Unauthorized entry into, unauthorized use of, or misuse of campus property.
- (h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction, or analysis.
- (i) Knowing possession or use of explosives, dangerous chemicals, or deadly weapons on campus property or at a campus function without prior authorization of the campus president.
- (j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
- (k) Abusive behavior directed toward, or hazing of, a member of the campus community.
- (l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose and which order is not inconsistent with any of the other provisions of this section.
- (m) Soliciting or assisting another to do any act that would subject a student to expulsion, suspension, or probation pursuant to this section.
- (n) For purposes of this article, the following terms are defined:
 - (1) The term "member of the campus community" is defined as meaning California State University trustees, academic, nonacademic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.
 - (2) The term "campus property" includes:
 - (a) real or personal property in the possession of, or under the control of, the Board of Trustees of The California State University, and
 - (b) all campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.
 - (3) The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, slingshot, billy, sand club, sandbag, metal knuckles, any dirt, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.
 - (4) The term "behavior" includes conduct and expression.
 - (5) The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization that causes, or is likely to cause, bodily danger, or physical or emotional harm, to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.
 - (o) This section is not adopted pursuant to Education Code Section 89031.
 - (p) Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this article as in effect immediately prior to such effective date.

41302. Disposition of Fees: Campus Emergency; Interim Suspension.

The president of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the president of the individual campus, the president may, after consultation with the chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The president may impose immediately an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to ensure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the president or designated representative, enter any campus of The California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission.

Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student,

commits acts which, were he or she enrolled as a student, would be the basis for disciplinary proceedings pursuant to Section 41301 or 41302. Admission or readmission may be qualified or denied any person who, while a student, commits acts that are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

41304. Student Disciplinary Procedures for the California State University.

The chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for The California State University. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Section 41301 or 41302, and for qualified admission or denial of admission under Section 41303; the authority of the campus president in such matters; conduct related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a hearing officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The chancellor shall report to the board his or her actions taken under this section.

Appendix E - Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and California Education Code, Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to records maintained by the campus and the release of such records. In brief, the law provides that the campus must provide students access to official records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions.

Cal State L.A. has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained at the Office of the Vice President for Student Affairs, Student Affairs 108. Among the types of information included in the campus statement of policies and procedures are: (1) the types of student records and the information contained therein; (2) the official responsible for the maintenance of each type of record; (3) the location of access lists that indicate persons requesting or receiving information from the record; (4) policies for reviewing and expunging records; (5) the access rights of students; (6) the procedures for challenging the content of student records; (7) the cost that will be charged for reproducing copies of records; and (8) the

right of the student to file a complaint with the Department of Education. An office and review board have been established by the Department of Education to investigate and adjudicate violations and complaints. The office designated for this purpose is: The Family Educational Rights and Privacy Act Office (FERPA), U.S. Department of Education, 330 "C" Street, Room 4511, Washington, D.C. 20202.

Cal State L.A. is authorized under the act to release "directory information" about students. "Directory information" includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The above-designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information that the student requests not be released. Such written objections should be directed to the University Registrar.

Cal State L.A. is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus' academic, administrative, or service functions and who have reason for using student records connected with their campus or other related academic responsibilities. Disclosure may also be made to other persons or organizations under certain conditions (e.g., as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; to other institutions to which the student is transferring).

Appendix F - Institutional and Financial Assistance Information

The following information about student financial assistance may be obtained from the Center for Student Financial Aid, located in Student Affairs 124, phone (323) 343-1784:

1. Student financial assistance programs available to students who enroll at Cal State L.A.
2. The methods by which such assistance is distributed among recipients who enroll at Cal State L.A.
3. The means, including forms, by which application for student financial assistance is made and requirements for preparing application accurately.
4. The rights and responsibilities of students receiving financial assistance.
5. The standards students must maintain to be making satisfactory progress for the purpose of establishing and maintaining eligibility for financial assistance.

The following information about the cost of attending Cal State L.A. is available from the Center for Student Financial Aid, located in Student Affairs 124, phone (323) 343-1784.

1. Fees and tuition (when applicable).
2. Estimated costs of books and supplies.
3. Estimates of typical student room and board costs and typical commuting costs.
4. Any additional costs of the program in which the student is enrolled or expresses a specific interest.

Information about the refund policy of Cal State L.A. for the return of unearned tuition and fees or other refundable portions of costs is available from the Disbursement Office, located in Administration 128, phone (323) 343-3630.

Information about Cal State L.A. policies about any refund because of the federal Title IV student assistance programs as required by the regulations is available from the Center for Student Financial Aid, (323) 343-1784.

More information about financial aid is available from the Web site: www.calstatela.edu/univ/finaid.

Information about the academic programs of Cal State L.A. may be obtained from the Dean of Undergraduate Studies, located in Administration 725, phone (323) 343-3830, or the Dean of Graduate Studies and Research, located in Administration 710, phone (323) 343-3820, as appropriate. This information may include:

1. The current degree programs and other educational and training programs.
2. The instructional, laboratory, and other physical plant facilities that relate to the academic program.
3. The faculty and other instructional personnel.
4. Data regarding student retention at Cal State L.A. and, if available, the number and percentage of students completing the program in which the student is enrolled or expresses an interest.
5. The names of associations, agencies, or governmental bodies that accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain and review upon request a copy of the documents describing the institution's accreditation, approval, or licensing.

Information about special facilities and services available to disabled students may be obtained from the Office of Students with Disabilities, located in Student Affairs 115, phone (323) 343-3140 (TDD 3139).

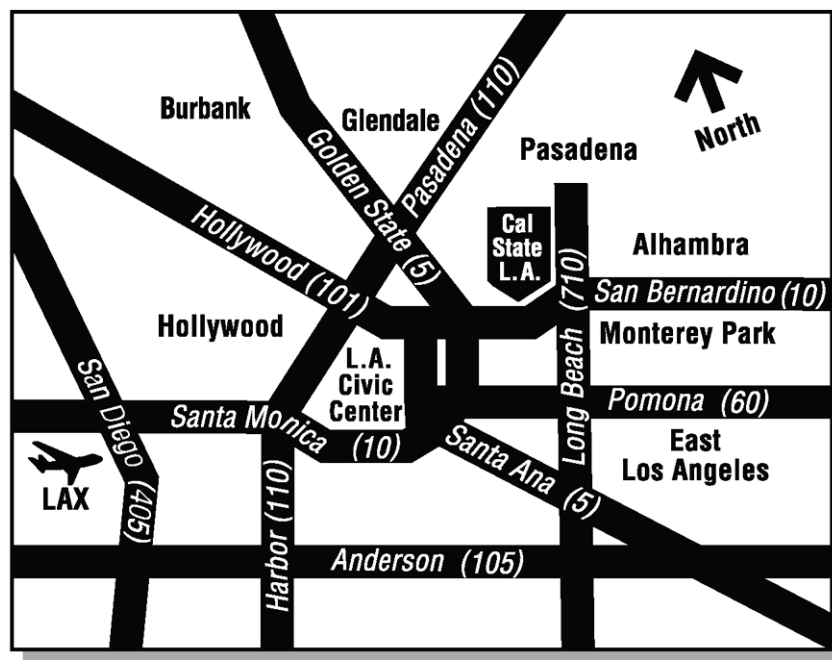
Appendix G - Procedure for Establishment or Adjustment of a Student Body Fee and Other Mandatory Fees

The law governing The California State University provides that fees defined as mandatory, such as a *student body association fee* and a *student body center fee*, may be established. A *student body association fee* must be established upon favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). A *student body center fee* may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). The campus president may adjust the *student body association fee* only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose (Education Code, Section 89300). The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus president containing the signatures of 10% of the regularly enrolled students at the University.

Once bonds are issued, authority to set and adjust *student body center fees* is governed by provisions of the State University Revenue Bond Act of 1947: Education Code, Sections 90012, 90027, and 90068.

The process to establish and adjust other mandatory fees requires consideration by the campus fee advisory committee. A student referendum also is required. However, the president may use alternate consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus president. The president may request the chancellor to establish the mandatory fee. Authority to adjust fees after consideration by the campus fee advisory committee and the completion of a student referendum is delegated to the president.

Appendix H - Freeway Map To The Campus



Public Transportation to and from Cal State L.A. is excellent. In addition to being easily accessible by freeway, the campus also is served by more than 20 bus lines from all parts of the greater Los Angeles area and portions of Riverside and San Bernardino counties. Most bus lines come directly onto the campus; a few run along surface streets north and south of the campus. Detailed information about all bus lines that serve the campus appears each quarter in the *Schedule of Classes* and is available at the *University Student Union's information and Ticket Service Counter*. The **Metrolink** rail system operates a station at Cal State L.A.

Cal State L.A. participates in efforts to improve the air quality in the South Coast Air Basin by encouraging employees and students to use alternative modes of transportation such as joining a carpool, public transit, walking or riding a bicycle. Students and employees may visit the Commuter Services Office located in Building C for more information or call (323) 343-KARS or (323) 343-5277.

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