

Recommended Course Sequence

Graduate Studies

Program: Mechanical Engineering, M.S.

Effective Fall 2021

Fall	Units	Spring	Units
Year One -		19 units	
ME 4090	3	ME 5800	3
ME 5810	3	ME 5830	1
ME 5840	3	ME 5980	3
		Directed Elective 1*	3
TOTAL 9		TOTAL 10	
Year Two -		12 units	
Directed Elective 2*	3	Directed Elective 4*	3
ME 5970 ² / Directed Elective 3*	3	[Directed Elective 5* and ME 5960**]	3
		/ ME 5990 **	
TOTAL 6		TOTAL 6	
PROGRAM TOTAL			31

Notes:

* Directed Elective courses: Approval from program graduate advisor is required.

** These are commulating experience courses, not an option of the degree.

² Required for ME 5990 students; ME 5960 students take Directed Elective 3.

~ At least 22 units of 5000-level courses are required to satisfy the degree .

~ Two-year rotation of 5000-level electives:

Courses:	Frequency	Fall	Spring	Fall	Spring
		Odd Year	Even Year	Even Year	Odd Year
ME 5050 - Conduction Heat Transfer	every 2 years				x
ME 5060 - Convection Heat Transfer	every 2 years		x		
ME 5110 - Advanced Vibrational Analysis	every 2 years	x			
ME 5140 - Mechanical Behavior of Materials	every 2 years		x		
ME 5200 - Advanced Dynamics of Rigid Bodies	every 2 years		x		
ME 5210 - Dynamic Systems Analysis	every 2 years				x
ME 5220 - Optimal Control of Mechanical Systems	every 2 years	x			
ME 5250 - Computational Fluid Dynamics	every 2 years			x	
ME 5300 - Advanced Manufacturing Processes	every 2 years			x	
ME 5540 - Special Graduate Topics in Mechanical Engineering	as needed	x	x	x	x
ME 5970 - Graduate Research	as needed	x	x	x	x
ME 5980 - Graduate Directed Study	as needed	x	x	x	x