

2022-23 ME Undergraduate Program of Study

	Fall Quarter		Winter Quarter		Spring Quarter	
Freshman (50 units)	Math 3A (4)	Calculus w/Applications	Math 3B (4)	Calculus w/Applications	Math 4A (4)	Diff. Equations & Lin. Alg.
	Chem 1A (3)	General Chemistry	Chem 1B (3)	General Chemistry	ME 10 (4)	Engineering Graphics
	Chem 1AL (2)	Chemistry Lab	Chem 1BL (2)	Chemistry Lab	Phys 2 (4)	Basic Physics
	¹ ME 12S (1)	Intro to Machine Shop	Phys 1 (4)	Basic Physics	ENGR 3 (3)	Intro to Programming
	Writ 1E or 2E (4)	Acad. Writing for Engrs.	Writ 2E or 50E (4)	Writing & Res. for Engrs.	Writ 50E or G.E. elective (4)	Writing & Res. for Engrs.
	*ME 11 (1)	Introductory Concepts in Mech. Engineering				
Total Units	14/15		17		19	
Sophomore (47 units)	Math 4B (4)	Diff. Equations & Lin. Alg	Math 6A (4)	Vector Calc w/App.	Math 6B (4)	Vector Calc. w/App.
	ME 14 (4)	Statics	ME 6 (4) <i>Rm. 2218</i>	Basic Electrical and Electronic Circuits	ME 16 (4)	Engineering Mechanics: Dynamics
	ME 17 (3)	Mathematics of Engineering	ME 15 (4)	Strength of Materials	G.E. Elective (4)	
	Phys 3 (3)	Basic Physics	Phys 4 (3)	Basic Physics	G.E. Elective (4)	
	Phys 3L (1)	Physics Lab	Phys 4L (1)	Physics Lab	* ME 95/97/99 (1-4)	LD Design/Research Projects
Total Units	15		16		16	
Junior (42 units)	ME 103 (4)	Fund. Dynamical Systems Modeling	Matrl 101 (3)	Intro to Structure and Properties of Materials	ME 104 (4) <i>Rm. 2218</i>	Sensors, Actuators & Computer Interfacing
	ME 107 (3)	Machine Learning	ME 108 (3)	Applications of Finite Element Analysis	ME 153 (3)	Intro to ME Design
	ME 151A (4)	Thermosciences I	ME 151B (4)	Thermosciences II	Specialization Course (3)	
	ME 152A (4)	Fluid Mechanics	Specialization Course (3)		G.E. Elective (4)	
Total Units	15		13		14	
Senior (43 units)	ME 105 (4) <i>Rm. 2218</i>	Mech. Engineering Laboratory	ME 156B (3)	Mechanical Engineering Design II	ME 189C (3)	Capstone ME Design Project
	² ME 154 or ME 157 or ME 167 (3)	Design and Analysis of Structures	ME 189B (3)	Capstone ME Design Project	Dept elective (3)	
	ME 156A (3)	Mechanical Engineering Design I	Dept electives (3)		G.E. or free elective (4)	
	ME 189A (3)	Capstone ME Design Project	G.E. or free elective (4)		G.E. or free elective (4)	
	Dept. Electives (3)				*ME 193/197/199 (1-4)	UD Design/Research Projects
	16		13		14	
<p>Courses in Bold are Lab courses</p> <p>*Shaded courses are optional but recommended. ME 11 (offered in Fall only) ME 95/97/99 & 193/197/199 are variable units.</p> <p>¹ ME 12S offered Fall, Winter, and Spring must be completed by the end of the sophomore year</p> <p>²If using ME 157 or ME 167 to satisfy the ME 154 requirement, students may not count ME 157 or ME 167 as an engineering elective.</p>						