

Mechanical Engineering Program Sheet (Fall 2026)

FRESHMAN YEAR			
Fall Semester		Spring Semester	
Course	Credits	Course	Credits
ENGR 100 - Engineering Seminar I	1	MCAE 100 - Engineering Graphics	3
ENGR 110 - Modeling and Simulation	3	MATH 212 - Calculus II	4
MATH 211 - Calculus I	4	PHYS 206/126 - Inter. Physics II/Lab	4
PHYS 205/124 - Inter. Physics I/Lab	4	ENGL 114 - Academic Writing	3
UNIV 101 - First Year Seminar	3	(GenEd - I1)	3
Total	15	Total	17
SOPHMORE YEAR			
Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MCAE 200 - Statics	3	ENGR 200 - Engineering Seminar II	1
MATH 322 - Differential Equations	3	MCAE 210 - Dynamics	4
CHEM 121/125 - Chemical Bonding/Lab	4	MATH 375 - Probability & Statistics for Engineers	4
COST 100 - Intro to Speech Communication	3	CHEM 122/126 - Chemical Dynamics/Lab	4
(GenEd - I3)	3	HIST 105 - Hist. Found. Global Cultures	3
Total	16	Total	16
JUNIOR YEAR			
Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MCAE 220 - Fluid	4	MCAE 310 - Manufacturing Processes	4
MCAE 230 - Mechanics of Materials	4	ELEN 220 - Linear Circuit Analysis	4
MCAE 300 - Engineering Materials	3	ENGR 120 - Programing for Engineers	3
ENGR 310 - Statistical Process Control	3	ENGR 300 - Engineering Seminar III	1
		Engineering Elective I	3
Total	14	Total	15
SENIOR YEAR			
Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MCAE 410 - Thermodynamics and Heat Transfer	4	MCAE 420 - Machine Design	3
MCAE 320 - Machine Dynamics	4	MCAE 450 - Thermal System Design	3
ECON 101 - Principles of Macroeconomics	3	CMPE 499 - Eng. Design & Development	2
Engineering Elective II	3	Mechanical Engineering Elective	3
(GenEd - CR2)	3	(GenEd - CE2)	3
Total	17	Total	14
		Program Total:	124