

Updated 5/24/2018

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Intro. to ME I ME 128[^] (1) (1st qtr freshman year. Concur: ME 163)	Intro to ME II ME 129[^] (1) (ME 128)	Introduction to ME III ME 130[^] (1) (ME 129, 3rd quarter)	Engineering Statics ME 211 (3) (MATH 241+, PHYS 131 or 141)	Engineering Dynamics ME 212 (3) (MATH 241; ME 211 or ARCE 211)	Philosophy of Design ME 234 (3) (Soph standing)	Intermediate Dynamics ME 326 (4) (ME 212; CSC 231 or 234, MATH 244†)	Design for Strength & Stiffness ME 328 (4) (BMED 212 or ME 234; CE 207; CSC 231 or 234; MATE 210; ME 212 & 251. IME 141† or ITP 341†)	Mechanical Systems Design ME 329 (4) (ME 328)	Mechanical Control Systems ME 422 (4) (ME 318)	Thermal System Design ME 420 (4) (ME 303; ME 347; & ME 343 or 350)	
Orientation to ME ME 163[^] (1) (Concur: ME 128)											
Manufacturing Processes: Materials Joining IME 142 (2)											
Manufacturing Processes: Material Removal IME 143 (2)											
	Manuf. Processes Elective IME 141 (1) OR ITP 341 (4)*		Intro to Detailed Design w/ Solid Modeling ME 251 (2) (ME 130 or 228. Recom: IME 143)	Measurement & Engineering Data Analysis ME 236 (3) (Recom: CHEM 125, ENGL 149, & PHYS 132)	MATE & Laboratory I MATE 210 (3) & MATE 215 (1) (CHEM 111, 124, or 127. Rec: Conc MATE 215)	Thermodynamics I ME 302 (3) (ME 212 & PHYS 132)	Thermodynamics II ME 303 (3) (ME 302)	Heat Transfer ME 350 (4) (CPE/CSC 101 or CSC 231 or 234; MATE 360 & 380, or ME 236 & 302 & 341)	Senior Design Project I ME 428 (2)¹ (ME 329. Coreq: ME 318 & 350)	Senior Design Project II ME 429 (2)¹ (ME 428)	Senior Design Project III ME 430 (2)¹ (ME 429)
Calculus I MATH 141 (4) * [B1]	Calculus II MATH 142 (4) (MATH 141 w/min C-) [B1]	Calculus III MATH 143 (4) (MATH 142 w/min C-) [Add'l Area B]	Calculus IV MATH 241 (4) (MATH 143)	Linear Analysis I MATH 244 (4) (MATH 143)	Linear Analysis II MATH 344 (4) (MATH 206 & 242; or 241 & 244) [B6]	Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)	Fluid Mechanics II ME 347 (4) (ME 236, ME 341, ME 302 or Instr. consent)	Mechanical Vibrations ME 318 (4) (ME 326, MATH 344. Recom: EE 201)	Test Design & Analysis in Manufacturing Engineering IME 327 (4) (STAT 321 w/min C- or Instr. Consent; or ME 236)	Mechanical or Electronics Mfg.Emphasis Course (4)* ***	Mechanical or Electronics Mfg.Emphasis Course (4)* ***
	Select one: General Physics PHYS 131 (4) OR PHYS 141 (4) * [Add'l Area B]	General Physics II PHYS 132 (4) (PHYS 131 or HNRS 131 or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Mechanics of Materials I CE 204 (3) (ME 211)	Mechanics of Materials II CE 207 (2) (CE 204)	Electric Circuit Theory and Lab EE 201 (3) & EE 251 (1) (MATH 244, PHYS 133)	Electronics and Electronics Lab EE 321 (3) & EE 361 (1) (EE 201, EE 251)	Take concurrently: Life Science for Eng BIO 213 (2) (MATH 142. Recom: CHEM 124) & Bioeng Fundamentals BMED 213 (2) (MATH 142. Recom: CHEM 124) [B2]			Design and Manufacturing Elective (3-5)* ***
		Gen. Chem. For Phys Sci & Engineering I CHEM 124 (4) * [B3/B4]	Gen. Chem. For Phys Sci & Engineering II CHEM 125 (4) (CHEM 124)	Select one: Programming for Engin. Stud. CSC 231 (2) (MATH 142; PHYS 121, 131, or 141) OR C & Unix CSC 234 (3) (MATH 142)							
		Expository Writing ENGL 133 or 134 (4)** [A1] Can be taken anytime during Freshman Year				GE (4) **	GE (4) Rec: ECON 201 **				
		Oral Communication COMS 101 or 102 (4)** [A2] Can be taken anytime during Freshman Year							GE (4) **	GE (4) **	GE (4) **
GE (4) **	Technical Writing ENGL 149 (4) [A3] (Completion of GE A1 with a C- or better, Recom: Completion of GE A2) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years										
	Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)										
16	16-19	17	17	15-16	17	18	15	16	14	18	17-19
										TOTAL:	196-202

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

** One course from each of the following GE areas must be completed: A1, A2, C1, C2, C3, C4, D1, D2, D3, D4. C4 should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR). USCP requirement can be satisfied by some (but not all) courses within GE categories: C3, C4, D1, D3, or D4.

*** Refer to current catalog for course selection.

† Course can be taken previously or concurrently.

[^] Transfer students take ME 228 & 229 in lieu of ME 128, 129, 130 and 163

¹ ENGR 459, ENGR 460 and ENGR 461 (6) may substitute for ME 428, ME 429 and ME 430 (6).

Legend:

Course Title Course # (Units) (Prerequisite)		Major (59)
		Support (76-80)
		Concentration (21-23)
		General Ed. (40)
[GE Area]		