

Updated 2/12/2016

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Mechanical Engineering I ME 128^ (1) (1st quarter freshman year)	Intro. to ME II ME 129^ (1) (ME 128, 2nd quarter. Con: ME 163) Orientation to ME ME 163^ (1) (Concur: ME 129)	Introduction to Mechanical Engineering 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) (ME 130 or 228†)	Intermediate Dynamics ME 326 (4) (MATH 244†, ME 212, CSC 231 or 234)	Introduction to Design ME 328 (4) *	Intermediate 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)	Select one: IME 356 (4)* or IME 416 (3)* or ME 506 (4)* or ME 507 (4)*
Manufacturing Processes: Materials Joining IME 142 (2)			Intro to Detailed Design w/ Solid Modeling ME 251 (2) (ME 130 or 228)	Measurement & Engineering Data Analysis ME 236 (3) (Recom: ENGL 134, CHEM 125, PHYS 131)	Select one: Program./ Engin. Stud. CSC 231 (2)* or C & Unix CSC 234 (3) (MATH 142)	Thermodynamics I ME 302 (3) (PHYS 132; ME 212 or CHEM 128)	Thermodynamics II ME 303 (3) (ME 302)	Heat Transfer ME 350 (4) (CPE/CSC 101 or CSC 231 or 234; MATE 380 or 302; ME 236; & ME 341)	Senior Design Project I ME 428 (3) (ME 329. Coreq: ME 318 & 350/343)	Senior Design Project II ME 429 (2) (ME 428)	Senior Design Project III ME 430 (1) (ME 429)
Manufacturing Processes: Material Removal IME 143 (2)			Manuf. Processes Elective IME 141 (1) OR IT 341 (4)*			Fluid Mechanics I ME 341 (3) (ME 212 or ARCE 225)	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)	Introduction to Mechatronics ME 305 (4) (EE 321 & EE 361, or Instr. consent)	Mechatronics ME 405 (4) (ME 305 & ME 329†, or CPE/EE 329)	Robotics: Fundamentals & Applications ME 423 (4) (ME 326, ME 422)
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 MATH 241 & 244) [B6]	Electric Circuit Theory and Lab EE 201 (3) and EE 251 (1) (MATH 244, PHYS 133)	Electronics, and Electronics Lab EE 321 (3) and EE 361 (1) (EE 201/251)	Take concurrently: BIO 213 (2) and BMED 213 (2) (MATH 142, Recom: CHEM 124) [B2]	GE (4) **	GE (4) **	GE (4) **
GE (4) **	General Physics I PHYS 131 or PHYS 141 (4) * [Add'l Area B]	General Physics II PHYS 132 (4) (PHYS 131, 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)	Materials Engineering & Laboratory I MATE 210 (3) and MATE 215 (1) (CHEM 111, 124, or 127. Rec: Conc MATE 215)	GE (4) Rec: ECON 201 **			GE (4) **	GE (4) **
		Gen. Chem. For Phys Sci & Engineering I CHEM 124 (4)* [B3/B4]	Gen. Chem. For Phys Sci & Engineering II CHEM 125 (4) (CHEM 124)	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										
	Expository Writing ENGL 133 or 134 (4)** [A1] Can be taken anytime during Freshman Year										
	Oral Communication COMS 101 or 102 (4)** [A2] Can be taken anytime during Freshman Year										
15	17	17	17	17	15-16	18	15	16	15	18	16-17
										TOTAL:	196-198

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

Legend:

Course Title Course # (Units) (Prerequisite)		Major (59)
		Support (77-78)
		Concentration (21-22)
[GE Area]		General Ed. (40)