

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 <b>ME 128<sup>^</sup> (1)</b> (1st quarter freshman year)	Intro. to ME II <b>ME 129<sup>^</sup> (1)</b> (ME 128, 2nd quarter. Con: ME 163)  Orientation to ME <b>ME 163<sup>^</sup> (1)</b> (Concur: ME 129)	Introduction to Mechanical Engineering III <b>ME 130<sup>^</sup> (1)</b> (ME 129, 3rd quarter)	Engineering Statics <b>ME 211 (3)</b> (MATH 241†, PHYS 131 or 141)	Engineering Dynamics <b>ME 212 (3)</b> (MATH 241; ME 211 or ARCE 211)	Philosophy of Design <b>ME 234 (3)</b> (ME 130 or 228†)	Intermediate Dynamics <b>ME 326 (4)</b> (MATH 244†, ME 212, CSC 231 or 234)	Introduction to Design <b>ME 328 (4)</b> *	Intermediate Design <b>ME 329 (4)</b> (ME 328)	Mechanical Control Systems <b>ME 422 (4)</b> (ME 318)	<b>Take concurrently: BIO 213 (2) and BMED 213 (2)</b> (MATH 142, Recom: CHEM 124) [B2]	Thermal System Design <b>ME 420 (4)</b> (ME 303; ME 347; & ME 343 or 350)
Manufacturing Processes: Materials Joining <b>IME 142 (2)</b>			Intro to Detailed Design w/ Solid Modeling <b>ME 251 (2)</b> (ME 130 or 228)	Measurement & Engineering Data Analysis <b>ME 236 (3)</b> (Recom: ENGL 134, CHEM 125, PHYS 131)	<b>Select one: Program./ Engin. Stud. CSC 231 (2)* or C &amp; Unix CSC 234 (3)</b> (MATH 142)	Thermodynamics I <b>ME 302 (3)</b> (PHYS 132; ME 212 or CHEM 128)	Thermodynamics II <b>ME 303 (3)</b> (ME 302)	Heat Transfer <b>ME 350 (4)</b> (CPE/CSC 101 or CSC 231 or 234; MATE 380 or 302; ME 236; & ME 341)	Senior Design Project I <b>ME 428 (3)</b> (ME 329, Coreq: ME 318 & 350/343)	Senior Design Project II <b>ME 429 (2)</b> (ME 428)	Senior Design Project III <b>ME 430 (1)</b> (ME 429)
Manufacturing Processes: Material Removal <b>IME 143 (2)</b>			Manuf. Processes Elective <b>IME 141 (1) OR IT 341 (4)*</b>			Fluid Mechanics I <b>ME 341 (3)</b> (ME 212 or ARCE 225)	Fluid Mechanics II <b>ME 347 (4)</b> (ME 236, ME 341, ME 302 or Instr. consent)	Mechanical Vibrations <b>ME 318 (4)</b> (ME 326, MATH 344, Recom: EE 201)	Technical Elective <b>(3-4)</b> ***	Technical Elective <b>(4)</b> ***	Technical Elective <b>(4)</b> ***
Calculus I <b>MATH 141 (4)</b> * [B1]	Calculus II <b>MATH 142 (4)</b> (MATH 141 w/min C-) [B1]	Calculus III <b>MATH 143 (4)</b> (MATH 142 w/min C-) [Add'l Area B]	Calculus IV <b>MATH 241 (4)</b> (MATH 143)	Linear Analysis I <b>MATH 244 (4)</b> (MATH 143)	Linear Analysis II <b>MATH 344 (4)</b> (MATH 206 & 242; or MATH 241 & 244) [B6]	Electric Circuit Theory and Lab <b>EE 201 (3) and EE 251 (1)</b> (MATH 244, PHYS 133)	Electronics, and Electronics Lab <b>EE 321 (3) and EE 361 (1)</b> (EE 201/251)	Energy Conversion Electromagnetics & Lab <b>EE 255 (3) and EE 295 (1)</b> (EE 212 & 242 or EE 201 & 251)	GE (4) **	GE (4) **	GE (4) **
GE (4) **	General Physics I <b>PHYS 131 or PHYS 141 (4)</b> * [Add'l Area B]	General Physics II <b>PHYS 132 (4)</b> (PHYS 131, HNRS 131, or PHYS 141)	General Physics III <b>PHYS 133 (4)</b> (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241)	Mechanics of Materials I <b>CE 204 (3)</b> (ME 211)	Mechanics of Materials II <b>CE 207 (2)</b> (CE 204)	Materials Engineering & Laboratory I <b>MATE 210 (3) and MATE 215 (1)</b> (CHEM 111, 124, or 127. Rec: Conc MATE 215)	GE (4) Rec: ECON 201 **		GE (4) **	GE (4) **	GE (4) **
		Gen. Chem. For Phys Sci & Engineering I <b>CHEM 124 (4)*</b> [B3/B4]	Gen. Chem. For Phys Sci & Engineering II <b>CHEM 125 (4)</b> (CHEM 124)	GE (4) **						GE (4) **	GE (4) **
		Technical Writing <b>ENGL 149 (4) [A3]</b> (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 <b>ENGL 133 or 134 (4)** [A1]</b> Can be taken anytime during Freshman Year									
		Oral Communication <b>COMS 101 or 102 (4)** [A2]</b> Can be taken anytime during Freshman Year									
15	17	17	17	17	15-16	18	15	16	15-16	18	17
										<b>TOTAL: 196-202</b>	

**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. ME 470, ME 471, ME 570 and ME 571 are variable topics courses and may or may not count as ME electives. Please contact instructor for additional information. ME 400 and ME 500 are independent study classes and may be acceptable for technical elective credit. A course substitution form is required. Exceptions to this policy are possible through consultation with the department chair.

† 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)	Major (59)
(Prerequisite)	Support (76-80)
[GE Area]	Concentration (21-22)
	General Ed. (40)