

Updated 9/12/2017

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR			
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	
Introduction to Engineering <b>ENGR 110 (2)</b>	Introduction to Design & Manufacturing <b>IME 144 (4)</b>	Fundamentals of Computer Science <b>CSC/CPE 101 (4)<sup>2</sup></b> *	Engineering Statics <b>ME 211 (3)</b> (MATH 241 <sup>1</sup> , PHYS 131 or 141)	Engineering Dynamics <b>ME 212 (3)</b> (MATH 241; ME 211 or ARCE 211)	Engineering Economics <b>IME 314 (3)</b> (MATH 241)	Thermodynamics I <b>ME 302 (3)</b> (ME 212 and PHYS 132)	Fluid Mechanics I <b>ME 341 (3)</b> (MATH 242 or 244; ME 212)	Heat Transfer <b>ME 350 (4)<sup>4</sup></b> (CPE/CSC 101 or CSC 231 or 234; MATE 360 & 380, or ME 236 and 302 & ME 341)	Interdisc Sr Design Project I <b>ENGR 459 (2)</b> (Sr. standing)	Interdisc Sr Design Project II <b>ENGR 460 (2)</b> (ENGR 459)	Interdisc Sr Design Project III <b>ENGR 461 (2)</b> (ENGR 460)	
Calculus I <b>MATH 141 (4)</b> * [B1]	Calculus II <b>MATH 142 (4)<sup>1</sup></b> (MATH 141 w/min C-) [B1]	Calculus III <b>MATH 143 (4)<sup>1</sup></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)	Electric Circuit Theory & Lab <b>EE 201 (3) &amp; EE 251 (1)</b> (MATH 244, PHYS 133)	Materials Engineering & Lab I <b>MATE 210 (3) &amp; MATE 215 (1)</b> (CHEM 111, 124, or 127)	<b>General Curriculum<sup>5</sup>:</b> Data Structures <b>CPE/CSC 202 (4)</b> (CSC/CPE 101 w/min C- & MATH 141 or 221 w/min C- or Inst. consent)	<b>General Curriculum<sup>5</sup>:</b> Digital Design <b>CPE 133 (4)</b> (CPE/CSC 101)	<b>General Curriculum<sup>5</sup>:</b> Mechanics of Materials II <b>CE 207 (2)</b> (CE 204)	<b>General Curriculum<sup>5</sup>:</b> Approved Elective 300-lvl or higher <b>(4)</b>	<b>General Curriculum<sup>5</sup>:</b> Approved Elective 300-lvl or higher <b>(4)</b>	
	General Physics IA <b>PHYS 141 (4)<sup>1</sup></b> (MATH 141 w/min C-, MATH 142 or 1821) [Add'l Area B]	General Physics II <b>PHYS 132 (4)</b> (PHYS 131 or HNRS 131 or PHYS 141)	General Physics III <b>PHYS 133 (4)</b> (PHYS 131, 141, or HNRS 131; MATH 142, Recom: MATH 241)	Physical Science Elective <b>(4)<sup>3</sup></b> *	Mechanics of Materials I <b>CE 204 (3)</b> (ME 211)		<b>General Curriculum<sup>5</sup>:</b> Approved Elective 300-lvl or higher <b>(4)</b>	<b>General Curriculum<sup>5</sup>:</b> Electronics & Lab <b>EE 321 (3)</b> (EE 201) & <b>EE 361 (1)</b>	<b>General Curriculum<sup>5</sup>:</b> Choose one: <b>CPE/EE 329</b> or <b>IME 356</b> or <b>ME 305 (4)<sup>5</sup>*</b>		<b>General Curriculum<sup>5</sup>:</b> Approved Elective 300-lvl or higher <b>(4)</b>	
Choose one: General Chemistry I <b>CHEM 124</b> OR <b>CHEM 127 (4)<sup>1*</sup></b> [B3/B4]	Choose one: General Chemistry II <b>CHEM 125</b> OR <b>CHEM 128 (4)<sup>1*</sup></b>			Take concurrently: <b>BIO 213 (2), BMED/BRAE 213 (2)<sup>5</sup></b> (MATH 142, Recom: CHEM 124) [B2]	Math or Stat Elective <b>MATH 344, STAT 312, or STAT 350 (4)<sup>3*</sup></b> [B6]	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>Physical Science Elective (4)<sup>3</sup></b> *	<b>General Curriculum<sup>5</sup>:</b> Product-Process Design <b>IME 418 (4)</b> (Sr. standing, Recom: IME 450)	<b>General Curriculum<sup>5</sup>:</b> Approved Elective 300-lvl or higher <b>(2)</b>
Expository Writing <b>ENGL 133/134 (4)<sup>1*</sup></b> [A1]						<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	
Oral Communication <b>COMS 101/102 (4)<sup>1*</sup></b> [A2]												
Technical Writing <b>ENGL 149 (4)<sup>1</sup></b> [A3] (Completion of GE A1 with a C- or better, Recommended: Completion of GE A2) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years												
14	16	16	15	15	18	15	15	16	16	14	16	
										<b>TOTAL:</b>	<b>186</b>	

**Notes:**

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

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 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).

† Course can be taken previously or concurrently.

<sup>1</sup> Required in Support; also satisfies GE.

<sup>2</sup> Students with an approved individualized course of study may substitute CSC 231, a 2-unit course, with 2 units of other advisor approved coursework.

<sup>3</sup> Students in the general curriculum in General Engineering should choose a minimum of 3 units of 300-400 level physical science electives in order to meet 60 units of upper division required for the

<sup>4</sup> ME 350 or MATE 325, 326, 327, and 1 additional unit of an upper-division Technical Elective.

<sup>5</sup> This is the default curriculum for students who do not select the ICS (Individualized Course of Study) concentration.

**Legend:**

Course Title	
Course # (Units)	Major (86)
(Prerequisite)	Support (60)
[GE Area]	General Ed. (40)