

Updated 5/18/2016

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
<i>Introduction to Electrical Engineering &amp; Lab</i> <b>EE 111 (1) &amp; EE 151 (1)</b>	<i>Basic Electronics Manufacturing</i> <b>IME 156 (2)</b>	<i>Electric Circuit Analysis I</i> <b>EE 112 (2)</b> <small>(MATH 142; Recom: EE 111/151)</small>	<i>Electric Circuit Analysis II &amp; Lab</i> <b>EE 211 (3) &amp; EE 241 (1)</b> <small>(EE 112, 151, PHYS 133*, MATH 244†)</small>	<i>Electric Circuit Analysis III &amp; Lab</i> <b>EE 212 (3) &amp; EE 242 (1)</b> <small>(MATH 244, EE 211, 241)</small>	<i>Energy Conversion Electro-magnetics &amp; Lab</i> <b>EE 255 (3) &amp; EE 295 (1)</b> <small>(EE 212 &amp; 242 or EE 201 &amp; 251)</small>	<i>Semiconductor Device Electronics &amp; Lab</i> <b>EE 306 (3) &amp; EE 346 (1)</b> *	<i>Digital Electronics &amp; Integrated Circuits &amp; Lab</i> <b>EE 307 (3) &amp; EE 347 (1)</b> *	<i>Analog Electronics &amp; Integrated Circuits &amp; Lab</i> <b>EE 308 (3) &amp; EE 348 (1)</b> <small>(EE 302 &amp; 342, EE 307 &amp; 347)</small>	<i>Electronic Design &amp; Lab</i> <b>EE 409 (3) &amp; EE 449 (1)</b> *	<b>Technical Elective (4)</b> ***	<b>Technical Elective (3)</b> ***
<i>Calculus I</i> <b>MATH 141 (4)</b> * [B1]	<i>Calculus II</i> <b>MATH 142 (4)</b> <small>(MATH 141 w/min C-)</small> [B1]	<i>Calculus III</i> <b>MATH 143 (4)</b> <small>(MATH 142 w/min C-)</small> [Add'l Area B]	<i>Digital Design</i> <b>CPE/EE 133 (4)<sup>1</sup></b> <small>(EE 111 &amp; 151, CPE/CSC 101)</small>	<i>Computer Design &amp; Assembly Language Programming</i> <b>CPE/EE 233 (4)<sup>2</sup></b> <small>(CPE/EE 133)</small>	<i>Continuous-Time Signals &amp; Systems</i> <b>EE 228 (4)</b> <small>(BMED 355; or EE 212, 242; Recom: MATH 241)</small>	<i>Discrete Time Signals &amp; Systems &amp; Lab</i> <b>EE 328 (3) &amp; EE 368 (1)</b> <small>(BMED 355 or EE 228)</small>	<i>Classical Control Systems &amp; Lab</i> <b>EE 302 (3) &amp; EE 342 (1)</b> <small>(EE 228; Recom: EE 368)</small>	<b>Choose one: Programmable Logic &amp; Micro-processor-Based Sys. Design EE 329 (4)* or Microprocessor System Design EE 336 (4)*</b>	<b>Technical Elective (4)</b> ***	<b>Choose one: Senior Project I EE 461 (2) or Senior Project Design Lab I EE 463 (2) (EE 409, 449, 460)</b>	<b>Choose one: Senior Project II EE 462 (2) or Senior Project Design Lab II EE 464 (2)*</b>
<i>General Chemistry for Physical Science &amp; Engineering I</i> <b>CHEM 124 (4)</b> * [B3/B4]	<i>General Physics IA</i> <b>PHYS 141 (4)</b> <small>(MATH 141 w/min C-, MATH 142† or 182†)</small> [Add'l Area B]	<i>General Physics III</i> <b>PHYS 133 (4)</b> <small>(PHYS 131, HNRS 131, or PHYS 141; MATH 142; Recom: MATH 241)</small>	<i>General Physics II</i> <b>PHYS 132 (4)</b> <small>(PHYS 131, HNRS 131, or PHYS 141)</small>	<b>Take concurrently: BIO 213 (2) &amp; BMED 213 (2)</b> <small>(MATH 142, Recom: CHEM 124)</small> [B2]	<i>Modern Physics I</i> <b>PHYS 211 (4)</b> <small>(PHYS 132, 133, MATH 241)</small>	<i>Probability and Random Processes for Engineers</i> <b>STAT 350 (4)</b> <small>(MATH 241, EE 228)</small> [B6]	<i>Introduction to Communication Systems</i> <b>EE 314 (3)</b> <small>(STAT 350)</small>	<i>Electromagnetic Fields &amp; Transmission &amp; Lab</i> <b>EE 335 (4) &amp; EE 375 (1)</b> *	<i>Senior Project Preparation</i> <b>EE 460 (2)</b> <small>(EE 314, 335, EE 409† &amp; 449†)</small>	<b>Approved Engineering Support Electives (3)</b> ***	<b>Approved Engineering Support Electives (3)</b> ***
	<b>GE (4)</b> **	<i>Fundamentals of Computer Science I</i> <b>CSC/CPE 101</b> *	<i>Linear Analysis I</i> <b>MATH 244 (4)</b> <small>(MATH 143)</small>	<i>Calculus IV</i> <b>MATH 241 (4)</b> <small>(MATH 143)</small>	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<b>GE (4)</b> **	<i>Electromagnetic Waves</i> <b>EE 402 (4)</b> <small>(EE 335)</small>	<b>GE (4)</b> **	<b>GE (4)</b> **
<i>Expository Writing</i> <b>ENGL 133 or 134 (4)**</b> [A1] <small>Can be taken anytime during Freshman Year</small>											
<i>Oral Communication</i> <b>COMS 101 or 102 (4)**</b> [A2] <small>Can be taken anytime during Freshman Year</small>											
			<i>Technical Writing for Engineers</i> <b>ENGL 149 (4)</b> [A3] <small>(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</small>								
						<b>Graduation Writing Requirement GWR*</b> <small>(Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)</small>					
16	16	18	16	16	16	16	15	17	17	13	16
										TOTAL:	192

**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 current catalog for course selection.

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.

**MAJOR COURSES SHOULD BE TAKEN IN QUARTERS DESIGNATED ON THIS EE FLOWCHART**

† Course can be taken previously or concurrently.

<sup>1</sup>Courses CPE/EE 129 (3) and CPE/EE 169 (1) may substitute for CPE/EE 133 (4).

<sup>2</sup>Courses CPE/EE 229 (3) and CPE/EE 269 (1) may substitute for CPE/EE 233 (4).

**Legend:**

Course Title <b>Course # (Units)</b> <small>(Prerequisite)</small>		<b>Major (85)</b>
	<b>Support (67)</b>	
	<b>General Ed. (40)</b>	
	<b>[GE Area]</b>	