Updated 8/8/2017

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Electrical Engineering & Lab **EE 111 (1) & EE 151 (1)**	Basic Electronics Manufacturing **IME 156 (2)**	Electric Circuit Analysis I **EE 112 (2)[1]** (MATH 142; Recom: EE 111/151)	Electric Circuit Analysis II & Lab **EE 211 (3) & EE 241 (1)** (EE 112, 151. PHYS 133†, MATH 244†)	Electric Circuit Analysis III & Lab **EE 212 (3) & EE 242 (1)** (MATH 244, EE 211, 241)	Energy Conversion Electromagnetics & Lab **EE 255 (3) & EE 295 (1)** (EE 212 & 242 or EE 201 & 251)	Semiconductor Device Electronics & Lab **EE 306 (3) & EE 346 (1)** (CHEM 124, EE 212 & 242, IME 156 or 157 or 458, PHYS 211)	Digital Electronics & Integrated Circuits & Lab **EE 307 (3) & EE 347 (1)** (CPE/EE 133, EE 306 & 346, CPE/EE 233†)	Analog Electronics & Integrated Circuits & Lab **EE 308 (3) & EE 348 (1)** (EE 302 & 342, EE 307 & 347)	Electronic Design & Lab **EE 409 (3) & EE 449 (1)** (EE 308 & 348; CPE/EE 328 & 368; CPE/EE 329 or 336)	**Technical Elective (4)[3]** ***	**Technical Elective (4)[3]** ***
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]	Digital Design **CPE/EE 133 (4)[1]** (EE 111 & 151, CPE/CSC 101)	Computer Design & Assembly Language Programming **CPE/EE 233 (4)** (CPE/EE 133)	Continuous-Time Signals & Systems **EE 228 (4)** (BMED 355; or EE 212, 242; Recom: MATH 241)	Discrete Time Signals & Systems & Lab **EE 328 (3) & EE 368 (1)** (BMED 355 or EE 228)	Classical Control Systems & Lab **EE 302 (3) & EE 342 (1)** (EE 228; Recom: EE 368)	Choose one: Programmable Logic & Micro-processor-Based Sys. Design **EE 329 (4)*** OR Microprocessor System Design **EE 336 (4)***	Senior Project Preparation **EE 460 (2)[2]** (EE 314, 335, EE 409† & 449†)	**Choose One Series[2]:** Senior Project I & II **EE 461 (2)** (EE 409, 449, 460) OR Senior Project II & Design Lab I **EE 463 (2)** (EE 409, 449, 460)	Senior Project I & II **EE 462 (2)** (EE 461) OR Senior Project II & Design Lab I **EE 464 (2)** (EE 409, 449, 460)
General Chemistry for Physical Science & Engineering I **CHEM 124 (4)** * [B3/B4]	General Physics IA **PHYS 141 (4)** (MATH 141 w/min C-, MATH 142† or 182†) [Add'l Area B]	General Physics III **PHYS 133 (4)** (PHYS 131, HNRS 131, or PHYS 141; MATH 142; Recom: MATH 241)	General Physics II **PHYS 132 (4)** (PHYS 131, HNRS 131, or PHYS 141)	Take concurrently: Life Science for Engin **BIO 213 (2)** & Bioengineering Fundamentals **BMED 213 (2)** (MATH 142 Recom: CHEM 124) [B2]	Modern Physics I **PHYS 211 (4)** (PHYS 132, 133, MATH 241. Recom: MATH 242 or 244)	Probability and Random Processes for Engineers **STAT 350 (4)** [B6]	Introduction to Communication Systems **EE 314 (3)** (STAT 350)	Electromagnetic Fields & Transmission & Lab **EE 335 (4) & EE 375 (1)** (EE 201 and 251; or EE 212 and 242; and MATH 241)	**Technical Elective (4)[3]** ***	**Approved Engineering Support Electives (3)[3]** ***	**Approved Engineering Support Electives (3)[3]** ***
		Fundamentals of Computer Science **CSC/CPE 101 (4)** *	Linear Analysis I **MATH 244 (4)** (MATH 143)	Calculus IV **MATH 241 (4)** (MATH 143)	**GE (4)** **	**GE (4)** **	**GE (4)** **	**GE (4)** **	Electromagnetic Waves **EE 402 (4)** (EE 335)	**GE (4)** **	**GE (4)** **
	GE (4) **								Approved Engineering Support Electives **(3)[3]** ***		
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											
Technical Writing for Engineers **ENGL 149 (4)** [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						Graduation Writing Requirement **GWR*** (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)					
14	**18**	**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.
[1] EE 112 and CPE 133 are often offered as 100% online courses during the summer.
[2] ENGR 459, ENGR 460 and ENGR 461 (6) may substitute for the series EE 460, EE 461 and EE 462 (6) or the series EE 460, EE 463 and EE 464 (6).
[3] See catalog for course options. Consultation with advisor is recommended prior to selecting technical electives or approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. No course credits may be used simultaneously to satisfy both engineering support and technical elective requirements.

Legend:

Course Title **Course # (Units)** *(Prerequisite)* [GE Area]	**Major (85)**
	Support (67)
	General Ed. (40)