Updated 2/23/18

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Computer Engineering Orientation **CPE 100 (1)**	*Fundamentals of Computer Science* **CPE 101 (4)** * CSC	*Data Structures* **CPE 202 (4)** (CPE 101 w/min C-; MATH 141 or 221 w/min C-) CSC	*Proejct-Based Object-Oriented Programming & Design* **CPE 203 (4)** (CPE 202 w/min C- or Instr. consent) CSC	*Electric Circuit Analysis & Lab II* **EE 211 (3)** AND **EE 241 (1)** (EE 112. Prereq or concur: PHYS 133, Math 244)	*Electric Circuit Analysis & Lab III* **EE 212 (3)** AND **EE 242 (1)** (MATH 244, EE 211)	*Continuous-Time Signals & Systems* **EE 228 (4)** (BMED 355; or EE 212, 242; Recom: MATH 241)	*Digital Electronics & Integrated Circuits* **EE 307 (3)** AND **EE 347 (1)** (CPE 133, EE 306 & 346. Coreq: CPE 233. Concur: EE 347)	*Introduction to Operating Systems* **CPE 453 (4)** (CPE 357; CPE 225, 229, or 233) CSC		
								Introduction to Computer Networks **CPE 464 (4)** (CPE 357. Recommended: STAT 312, 321, or 350)			
Introduction to Computing **CPE 123 (4)**[1] (Basic computer literacy) CSC	*General Chemistry for Physical Science & Engineering I* **CHEM 124 (4)**[2] (Passing ELM score or exception, or MATH 104) [B3/B4]	*Digital Design* **CPE 133 (4)**[3] (CPE 100, 101) EE	*Electric Circuit Analysis I* **EE 112 (2)**[3] (MATH 142; Recom: EE 111/151) EE	*Computer Design and Assembly Language Programming* **CPE 233 (4)** (CPE 133)	*Systems Programming* **CPE 357 (4)** * CSC	*Computer Architecture* **CPE 315 (4)** (CPE 102 & 103; or CPE 202 & 203; & CSC 225, CPE 229 or 233)			*Capstone I* **CPE 350 (4)**[5] (CPE 329, may be concurrent)	*Capstone II* **CPE 450 (3)** (CPE 350)	**Approved Technical Elective** **(4)**[4,6] *** CPE
					Discrete Structures **CSC 348 (4)** (w/ min C- in CPE 102 & 103; or CPE 202 & 203; or Instr. consent)						
Electronics Manufacturing **IME 156 (2)** or **IME 157 (4)** or **IME 458 (4)***	*General Physics IA* **PHYS 141 (4)**[2] [MATH 141 w/min C-; MATH 142 or 182 (or concurrent enrollment)] [Add'l Area B]	*General Physics III* **PHYS 133 (4)** (PHYS 131, or HNRS 131, or PHYS 141; MATH 142. Recom: MATH 241)	*General Physics II* **PHYS 132 (4)** (PHYS 131, or HNRS 131, or PHYS 141)	*Modern Physics I* **PHYS 211 (4)** (PHYS 132, 133, MATH 241. Recom: MATH 242 or 244)	*Semiconductor Device Electronics & Lab* **EE 306 (3)*** AND **EE 346 (1)*** (CHEM 124; EE 212 & 242; IME 156, 157, or 458; PHYS 211. Rec: ENGL 134)		*Programmable Logic & Microprocessor-Based Systems Design* **CPE 329 (4)** (EE 307, 347; EE 229, 269 or CPE 233) EE	**Approved Technical Elective** **(4)**[4,6] *** CPE	*Senior Project I* **CPE 461 (3)** (CPE 350)	*Senior Project II* **CPE 462 (2)** (CPE 450)
Calculus I **MATH 141 (4)**[2] * [B1]	*Calculus II* **MATH 142 (4)**[2] (MATH 141 w/min C-) [B1]	*Calculus III* **MATH 143 (4)**[2] (MATH 142 w/min C-) [Add'l Area B]	*Calculus IV* **MATH 241 (4)** (MATH 143)	*Linear Analysis I* **MATH 244 (4)** (MATH 143)			**Approved Elective (CSC, EE, Math or Science) (3-4)**[4] ***		*Probability and Random Processes for Engineers* **STAT 350 (4)**[2] (MATH 241, EE 228) [B6]	**Approved Technical Elective** **(4)**[4,6] *** CPE	
Expository Writing **ENGL 133 or 134 (4)*** [A1] Can be taken anytime during Freshman Year					**GE (4)** **	**GE (4)** **	**GE (4)** **	**GE (4)** **	**GE (4)** **	**GE (4)** **	**GE (4)** **
Oral Communication **COMS 101 or 102 (4)*** [A2] Can be taken anytime during Freshman Year											
		Technical Writing for Engineers **ENGL 149 (4)** (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 [A3]					**Graduation Writing Requirement** **GWR*** (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)				**GE (4)** **
15-17	**16**	**16**	**18**	**16**	**16**	**16**	**16**	**15-16**	**16**	**18**	**14**

TOTAL: **192-195**

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, B2, 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 and restrictions.
Course subject is also Home Department designation, unless noted in red.
[1] An additional 4 units of approved technical electives may be substituted, although new students are strongly encouraged to take CSC 123/CPE 123.
[2] Required in Major/Support; also satisfies GE.
[3] CPE 133 and EE 112 are often offered as 100% online courses during the summer.
[4] Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. No double-counting with other
degree requirements.
[5] CPE 350 only offered in fall quarter.
[6] The following courses may not be used to satisfy this requirement: COOP units; BUS 499; CSC 302, CSC 303, CSC 310, CSC 400, CSC 500; EE 321, EE 322, EE 361, EE 400, EE 460, EE 500, EE 563.

Legend:

Course Title **Course # (Units)** (Prerequisite) [GE Area] Home Dept	**Major (95)** (yellow)
	Support (53-56) (orange)
	General Ed. (44) (green)

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