

Updated 4/12/2018

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Computing CPE/CSC 123 (4) (Basic computer literacy)	Fundamentals of Computer Science CSC/CPE 101 (4) *	Data Structures CSC/CPE 202 (4) ¹ (CPE/CSC 101, MATH 141 or 221, Min C- or Instr Consent)	Proj-Based Object-Oriented Programming & Design CSC/CPE 203 (4) (CSC/CPE 202 w/min C- or Instr. consent)	Systems Programming CSC/CPE 357 (4) (CSC/CPE 102 & 103 or 202 and CSC/CPE 203 w/ min C- or Instr consent; & CSC 225 or CPE/EE 229 or 233)		Professional Responsibilities CSC/CPE 300 (4) (CSC/CPE 357, Jr. standing)					
		General Psychology PSY 201/202 (4) [D4]	Introduction to Computer Organization CSC 225 (4) (CSC/CPE 202-formerly CSC/CPE 103)	Discrete Structures CSC 348 (4) (CSC/CPE 102 & 103 or CSC/CPE 202 & CSC/CPE 203. Min C- or Instr consent)	Engineering Economics IME 314 (3) (MATH 241)	Software Engineering I CSC 308 (4) (CSC 141 or CSC 348; and CPE/CSC 357)	Software Engineering II CSC 309 (4) (CSC 308)	Programming Languages I CSC 430 (4) (CSC 349, CSC/CPE 357)	Software Requirements Engineering CSC/CPE 402 (4) (CSC 307 or 309)	Software Construction CSC/CPE 405 (4) (CSC 305 & 402)	Software Deployment CSC/CPE 406 (4) (CSC 405)
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]	Calculus IV MATH 241 (4) (MATH 143)	Linear Analysis I MATH 244 (4) (MATH 143)	Statistical Methods For Engineers STAT 312 (4) (MATH 142) [B6]	Design & Analysis of Algorithms CSC 349 (4) (CSC 141 or 348 & MATH 142; or CPE/CSC 102 & 103 or 202 & 203 w/ MATH 248)	User-Centered Interface Design & Development CSC 484 (4) (CSC 307 or 308; Jr. standing)	Approved Technical Elective (4) ² ***	Approved Technical Elective (4) ² ***	Senior Project I CSC 491 (2) (CSC 307 or 309; Instr. consent)	Senior Project II CSC 492 (2) (CSC 491, Instr. consent)
Expository Writing ENGL 133/134 (4)** [A1]			Physical Science Support Electives (12 units) Physics IA, II, & III PHYS 141 (4)* [B3/B4] PHYS 132 (4)* [Add'l Area B] PHYS 133 (4)*			Approved Technical Elective (4) ² ***	Individual Software Design & Development CSC 305 (4) (CSC/CPE 357)	Approved Technical Elective (4) ² ***	Approved Technical Elective (4) ² ***	Approved Technical Elective (4) ² ***	Life Science Support Elective (4-5) ³ [Add'l Area B]
Oral Communication COMS 101/102 (4)** [A2]			Chemistry I, II, & III CHEM 124 (4)* [B3/B4] CHEM 125 (4)* [Add'l Area B] CHEM 126 (4)*			Choose one: Teamwork PSY 350 (4) (GE D4) OR Group Dynamics PSY 351 (4) (PSY 252 or 323) OR Small Grp Comm COMS 217 (4) (COMS 101 or 102)		Math Elective (Choose one): MATH 248, 304, 335, 336, or 451 (4) *			
	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			GE (4) **							
GE (4) **	GE (4) **									GE (4) **	GE (4) **
Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)											
16	16	16	16	16	15	16	16	16	16	14	14-15
										TOTAL:	187-188

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. 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, or D3.
 - *** Refer to current catalog for course selection.
 - † Course can be taken previously or concurrently.
 - ¹ May substitute CSC/CPE 108.
 - ¹ 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. A total of 20 technical elective units selected from upper-division and graduate CSC and CPE courses open to those in the major and not otherwise required by the major. An additional 4 units of CPE/CSC technical electives may substitute for CSC 123 in major requirements
 - ² Select one Life Science Support Elective from the following: BIO 111, BIO 161, BIO 213 & BMED 213, BOT 121, MCRO 221, or MCRO 224.

Legend:

Course Title Course # (Units) (Prerequisite)	Major (92)
[GE Area]	Support (59-60)
	General Ed. (36)