

Updated 11/15/2019

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Computing CPE/CSC 123 (4) <small>(Basic computer literacy)</small>	Fundamentals of Computer Science CSC/CPE 101 (4) *	Data Structures CSC/CPE 202 (4) ¹ <small>(CPE/CSC 101 ; MATH 141 or 221 w/min C-, Instr. consent)</small>	Proj-Based Object-Oriented Programming & Design CSC/CPE 203 (4) <small>(CSC/CPE 202 w/min C- or Instr. consent)</small>	Discrete Structures CSC 348 (4) <small>(CSC/CPE 102 & 103, or 202 & 203 w/min C- or Instr. consent)</small>	Computer Architecture CSC/CPE 315 (4) <small>(CSC/CPE 102 & 103, or 202 & 203; CSC 225, CPE/EE 229, or CPE/EE 233)</small>				Introduction to Operating Systems CSC/CPE 453 (4) <small>(CSC/CPE 357; 225 or CPE/EE 229 or 233)</small>		
			Introduction to Computer Organization CSC 225 (4) <small>(CSC/CPE 202)</small>	Professional Responsibilities CSC 300 (4) <small>(CSC/CPE 357; Jr Standing)</small>		CHOOSE ONE Ethics, Science & Tech PHIL 323 *		Choose One Series: Senior Project Lab I & II CSC 491 (2) CSC 492 (2) <small>CSC 307 or 309; Instr. consent (CSC 491; Instr. consent)</small> OR Research Senior Project I & II CSC 497 (2) CPE 498 (2) <small>CSC 307 or 309; Instr. consent (CSC 497; Instr. consent)</small>			
		Life Science Support Elective (4-5)² [B2]	MATH/STAT Support Elective (4)³	Systems Programming CSC/CPE 357 (4) <small>(C- or better in CSC/CPE 102 & 103, or 202 & 203; or Instr. consent; CSC 225 or CPE/EE 229 or 233)</small>		Approved Technical Elective (4)[^] ***	Approved Technical Elective (4)[^] ***	Approved Technical Elective (4)[^] ***			
Calculus I MATH 141 (4) * [B4]	Calculus II MATH 142 (4) <small>(MATH 141 w/min C-)</small> [B4]	Calculus III MATH 143 (4) <small>(MATH 142 w/min C-)</small> [Area B Elective]	Choose one: Linear Math MATH 206 (4) <small>(MATH 143)</small> OR MATH 244 (4) <small>(MATH 143)</small>	Design & Analysis of Algorithms CSC 349 (4) *	Statistical Methods for Engineers STAT 312 (4) <small>(MATH 142)</small> [Upper-Division B]	Programming Languages CSC 430 (4) <small>(CSC 349; CSC/CPE 357)</small>	Compiler Construction CSC/CPE 431 (4) <small>(CSC 430)</small>		Theory of Computation I CSC 445 (4) <small>(CSC 141 or 348)</small>		
Expository Writing ENGL 133/134 (4)** [A2]			Physical Science Support Electives (12 units) [^] <i>Physics IA, II, & III</i> PHYS 141 (4)* PHYS 132 (4)* PHYS 133 (4)* <small>[B1 & B3]</small> OR <i>Chemistry I, II, & III</i> CHEM 124 (4)* CHEM 125 (4)* CHEM 126 (4)* <small>[B1 & B3]</small>			Choose One Series: Intro Software Engineering & Tech Elective CSC 307 (4) Tech Elective (4) <small>CSC 141 or 348; CPE/CSC 357</small> * OR Software Engineering I & II CSC 308 (4) CPE 309 (4)* <small>(CSC 141 or CSC 348) (CSC 308; CSC/CPE 357)</small>		Additional Science Support Elective (4)⁵ [Area B Elective]	Approved Technical Elective (4)[^] ***	Approved Technical Elective (4)[^] ***	
Oral Communication COMS 101/102 (4)** [A1]			Technical Writing for Engineers ENGL 149 (4) [A3] <small>(Completion of GE A2 with a C- or better, Recommended: Completion of GE A1) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years</small>			GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **
GE (4) **	GE (4) **					Graduation Writing Requirement GWR* <small>(Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)</small>			Free Elective (4)		
16	16	16-17	16	16	16	16	12	12	16	14	14
									TOTAL: 180-181		

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, Lower-Division C Elective, Upper-Division C, D1, D2, Area D Elective, E. Upper-Division C 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: C1, Upper-Division C, D1, D2, Upper-Division D, or E.

*** Refer to current catalog for course selection.

[^] Cannot double count units.

[†] Course can be taken previously or concurrently.

¹ May substitute with CSC/CPE 108.

² Select 4-5 units from the following "Life Science" Support Electives: BIO 111, 161, 213 & BMED 213; BOT 121; MCRO 221, 224.

³ Select 4 units from the following "MATH/STAT" Support Electives: MATH 241, 248, 306, 335, 336, 437, 470; STAT 313, 323, 324, 330, 331, 334, 416, 418, 419, 434.

⁴ CSC/CPE 309 counts as a Technical Elective. Students in the Interactive Entertainment Concentration are advised to take CSC 307 instead of CSC 308 and CSC 309.

⁵ Select 4 units from the following "Additional Science" Support Electives: BIO 111, 161; BOT 121; CHEM 124; MCRO 221, 224; PHYS 141.

Legend:

Course Title		
Course # (Units)		Major (88)
(Prerequisite)		Support (48-49)
		General Ed. (40)
[GE Area]		Free Electives (4)