

Updated 11/5/2021

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	Project-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) *	Electric Circuit Analysis & Lab III EE 212 (3) AND EE 242 (1) *	Choose One: Signals and Systems CPE 327 (3) & CPE 367 (1) OR EE 228 (4) *	Digital Electronics & Integrated Circuits EE 307 (3) AND EE 347 (1) (CPE 133; EE 306; EE 346; CPE 233†) CSC	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)	Capstone II CPE 450 (3)⁵ (CPE 350)	Approved Technical Elective (4)^{4,6} *** CPE
Introduction to Computing CPE 123 (4)¹ (Basic computer literacy) CSC	General Physics IA PHYS 141 (4)² [Area B Elective]	Electric Circuit Analysis and Lab EE 113 & EE 143⁷ (4) (MATH 142; Recom: EE 113 & 151)	Digital Design CPE 133 (4)³ (CPE 100; 101)	Computer Design and Assembly Language Programming CPE 233 (4) (CPE 133)	Systems Programming CPE 357 (4) *	Microcontrollers & Embedded Applications CPE 316 (4)² (CPE 357; Coreq: EE 211)	Computer Hardware Architecture & Design CPE 333 (4)⁸ (CPE 101, 233)				
General Chemistry for Physical Science & Engineering I CHEM 124 (4)² (MATH 118 or 330; Recom: HS Chemistry) [B1 & B3]		Calculus II MATH 142 (4)² (MATH 141 w/min C.) [B4]	Calculus III MATH 143 (4)² (MATH 142 w/min C.) [Area B Elective]	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)	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; EE 143 or IME 156 or IME 458; PHYS 211)	Approved Elective (CSC, EE, Math or Science) (3-4)¹ ***	Probability and Random Processes for Engineers STAT 350 (4)² * [Upper-Division B]	Research Senior Project I & II CSC 497 (2) (CSC 307 or 309)	CSC 498 (2) (CSC 497)
Calculus I MATH 141 (4)² * [B4]	Calculus IV MATH 241 (4) (MATH 143)			Linear Analysis I MATH 244 (4) (MATH 143)	Philosophical Classics PHIL 230 (4) or PHIL 231 (4) (GE Area A; Recom: PHIL 126) [C2]	Choose One: Ethics PHIL 323 (4), PHIL 327 (4), PHIL 328 (4), PHIL 339 (4), or PHIL 340 (4)[*] [Upper-Division C]	Approved Technical Elective (4)^{4,6} *** CPE			Approved Technical Elective (4)^{4,6} *** CPE	
Expository Writing ENGL 133 or 134 (4)** [A2] Can be taken anytime during Freshman Year	Oral Communication COMS 101 or 102 (4)** [A1] Can be taken anytime during Freshman Year	Reasoning, Argumentation, & Writing [A3] COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGS 145 (4)** (Completion of GE A2 with a C- or better) 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)	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	GE (4) **	
17	16			16	16	16	16	16	15-16	16	16
										TOTAL:	191-195

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, A3, B2, C1, Lower-Division C Elective, D1, Area D Elective, E, F. 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 and restrictions.

Course subject is also Home Department designation, unless noted in red.

† Course can be taken previously or concurrently.

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 ENGR 459, 460, 461, & CPE 400, or ENGR 463, 464, 465, & CPE 400 may substitute for CPE 350 and CPE 450

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; PHIL 323, 327, 328, 339, 340.

⁷ Take EE 113 (3) and EE 143 (1); or EE 112 (2) and IME 156 (2); or EE 112 and IME 458.

⁸ Take CPE 333 (4) or CPE 315 (4).

⁹ Take CPE 316 (4); or CPE/EE 329 (4); or EE 336 (4)

Legend:

Course Title	
Course # (Units)	Major (97-99)
(Prerequisite)	
[GE Area]	Support (55-56)
Home Dept	General Ed. (40)