

Updated 5/1/2018

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Computer Aided Drafting in Civil Engineering CE 113 (2) (ENVE 111 or CE 112T)						Programming Applications in Engineering CE 251 (2) (CE 113, CE 204, MATH 244)			Civil Engineering Professional Practice CE 465 (1) (Sr Standing and Instr. Consent)		
			Mechanics of Materials I CE 204 (3) (ME 211)			Mechanics of Materials II CE 207 (2) (CE 204)			Structural Engineering CE 352 (4) (CE 207, Coreq: CE 251)		
Introduction to Civil Engineering CE 111 (1)			Engineering Statics ME 211 (3) (MATH 241I, PHYS 131 or 141)			Civil Engineering Materials CE 259 (2) (CE 204)			Reinforced Concrete Design CE 355 (4) (CE 259 & 352)		
Design Principles in CE CE 112 (2) (MATH 143)			Engineering Dynamics ME 212 (3) (MATH 241; ME 211 or ARCE 211)			Fundamentals of Transportation Engineering and Lab CE 321 (3) and CE 322 (2) (PHYS 141, CE 259 or graduate Standing)			Approved Technical Elective (4)⁴ ***		
General Chemistry for Physical Science & Engineering I CHEM 124 (4)¹ [B3/B4]			General Chemistry for Physical Science & Engineering II CHEM 125 (4) (CHEM 124)			Water Resources Engineering and Hydraulics Lab CE 336 (4) and CE 337 (1) (ME 341 or ENVE 264)			Approved Technical Elective (4)⁴ ***		
Calculus I MATH 141 (4)¹ * [B1]			Calculus II MATH 142 (4)¹ (MATH 141 w/min C-) [B1]			Geotechnical Engineering and Lab CE 381 (4) and CE 382 (1) (CE 207; ME 341 or ENVE 264)			Approved Technical Elective (4)⁴ ***		
Calculus III MATH 143 (4)¹ (MATH 142 w/min C-) [Add'l Area B]			Calculus IV MATH 241 (4) (MATH 143)			Linear Analysis I MATH 244 (4) (MATH 143)			Introduction to Environmental Engineering ENVE 331 (4) (CHEM 125 or 128, MATH 242 or 244T)		
Engineering Surveying BRAE 239 (4) (MATH 119 or equiv.)			General Physics IA PHYS 141 (4) * [Add'l Area B]			General Physics II PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141)			Statistical Methods for Engineers STAT 312 (4)³ (MATH 142) [B6]		
General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142, Recom: MATH 241)			Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127, Recom: MATE 215 concur.)			Fluid Mechanics I ME 341 (3) (MATH 242 or 244; ME 212)			Thermodynamics I ME 302 (3) (ME 212 & PHYS 132)		
Expository Writing ENGL 133/134 (4)** [A1]			Physical Geology GEOL 201 (3) (MATH 119)			Take concurrently: BIO 213 (2), BMED/BRAE 213 (2) (MATH 142, Coreq: BMED/BRAE 213, Recom: CHEM 124) [B2]			Approved Engineering Science Elective (2-4)² ***		
Oral Communication COMS 101/102 (4)** [A2]			Materials Laboratory I MATE 215 (1) (MATE 210T)			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) **			Technical Writing for Engineers ENGL 149 (4)¹ [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) **			GE (4) **		
17			18			18			14		
18			14			14			15		
16			17-19			13			17		
17			15			15			TOTAL: 189-191		

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 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 guidelines for technical electives.

† Course can be taken previously or concurrently.

¹ Required in Support; also satisfies GE

² 2-4 units Approved Engineering Science Elective. See catalog. No double-counting of coursework with other requirements. Consultation with advisor recommended.

³ Alternatives to CE 466/467 include, but are not limited to, *Community Engineering Senior Project I and II* CE 468 (3) and CE 469 (3). Students interested in alternatives to CE 466/467 should contact the CE/ENVE Department Office.

⁴ 24 units Technical Electives. See catalog for course options and additional guidelines.

Legend:

Course Title Course # (Units) (Prerequisite)	Major (68)
[GE Area]	Support (81-83)
	General Ed. (40)