

Updated 8/8/2014

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Civil Engineering CE 111 (1)	Design Principles in Civil Engineering CE 112 (2) (MATH 141)	Computer Aided Drafting in Civil Engineering CE 113 (2) (CE 112†)		Mechanics of Materials I CE 204 (3) (ME 211)	Mechanics of Materials II CE 207 (3) (CE 204)	Structural Analysis CE 351 (4) (CE 251; CE 201 or 207)	Reinforced Concrete Design CE 355 (4) (CE 259, CE 351)	Geotechnical Engineering CE 381 (4) (CE 207; ME 341 or ENVE 264. Concur: CE 382)	Approved Technical Elective (4) ***	Approved Technical Elective (4) ***	Approved Technical Elective (4) ***
	General Chemistry for the Engineering Disciplines I CHEM 124 (4) * [B3/B4]	General Chemistry for the Engineering Disciplines II CHEM 125 (4) (CHEM 124)	Engineering Statics ME 211 (3) (MATH 241†, PHYS 131 or 141)	Engineering Dynamics ME 212 (3) (MATH 241; ME 211 or ARCE 211)	Civil Engineering Materials CE 259 (2) (CE 204)	Fundamentals of Transportation Engineering CE 321 (3) (PHYS 141, CE 259)	Water Resources Engineering CE 336 (4) (ME 341 or ENVE 264. Concur: CE 337)	Geotechnical Engineering Laboratory CE 382 (1) (Concur: CE 381)	Approved Technical Elective (4) ***	Senior Project I CE 466 (3)* OR CE 468 (3)*	Senior Project II CE 467 (3)* OR CE 469 (3)*
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)	Programming Applications in Engineering CE 251 (2) (CE 113, CE 204, MATH 244)	Fundamentals of Transportation Engineering Laboratory CE 322 (2) (CE 321†)	Hydraulics Laboratory CE 337 (1) (ME 341 or ENVE 264. Concur: CE 336)	Statistical Methods for Engineers STAT 312 (4) (MATH 142) [B6]	Approved Technical Elective (4) ***	GE (4) **	Approved Technical Elective (4) ***
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)	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) (ME 212 or ARCE 225)	Thermodynamics I ME 302 (3) (PHYS 132; ME 212 or CHEM 128)	Introduction to Environmental Engineering ENVE 331 (4) (CHEM 125 or 128, MATH 242 or 244†)	Approved Engineering Science Elective (2-4) ***	GE (4) **	GE (4) **	GE (4) **
GE (4) **				Materials Laboratory I MATE 215 (1) (MATE 210†)	GE (4) **	Take concurrently: BIO 213 (2), ENGR/BRAE 213 (2) (MATH 142, Recom: CHEM 124) [B2]	Physical Geology GEOL 201 (3) (MATH 119)	GE (4) **			
Expository Writing ENGL 133/134 (4)** [A1] Can be taken anytime during Freshman Year											
Oral Communication COMS 101/102 (4)** [A2] Can be taken anytime during Freshman Year											
			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								
						Graduation Writing Requirement (Can be taken any time after 90 earned units)			GWR*		
17	18	14	15	18	14	16	16	15-17	16	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.

Legend:

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