

CIVIL ENGINEERING UNDERGRADUATE PROGRAM

FRESHMAN YEAR

<u>First Semester</u>	Credit Hours	<u>Second Semester</u>	Credit Hours
CE 120 - Intro to Civil Engrg	1	CE 106 - Computer Graphics/Comm	3
CHE 105 - Gen Coll Chem I	3	CHE 107 - Gen Coll Chem II	3
ENG 104 - Writing: An Accelerated Foundational Crse	4	GLY 220 - Physical Geology	4
MA 113 - Calculus I	4	MA 114 - Calculus II	4
US: Social Science Elective	3	US: ECO 201 (R - Social Science)	3
Semester Hours	15	Semester Hours	17

SOPHOMORE YEAR

<u>First Semester</u>	Credit Hours	<u>Second Semester</u>	Credit Hours
CE 211 - Surveying	4	COM - Communications Elective (1)	3
CE 303 - Intro to Constr Engrg**	4	EM 221 - Statics	3
MA 213 - Calculus III	4	MA 214 - Calculus IV	3
PHY 231 - Gen Univ Physics	4	PHY 232 - Gen Univ Physics	4
PHY 241 - Gen Univ Physics Lab	1	PHY 242 - Gen Univ Physics Lab	1
		STA 381 - Statistics for Engrs	3
Semester Hours	17	Semester Hours	17

JUNIOR YEAR

<u>First Semester</u>	Credit Hours	<u>Second Semester</u>	Credit Hours
CE 331 - Transportation Engrg**	3	CE 351 - Intro Envr Engrg	3
CE 341 - Fluid Mechanics I	4	CE 382 - Structural Mechanics	3
CE 381 - CE Materials**	3	CE 471G - Soil Mechanics**	4
EM 302 - Mech of Deform Solids	3	CS 221 - 1st Crse CS for Engrs	2
MNG 303 - Deformable Solids Lab	1	US: HIS 107 (R - Humanities)	3
US: Humanities Elective (2)	3	Math Elective (3) or Tech Elective***	3
Semester Hours	17	Semester Hours	18

SENIOR YEAR

<u>First Semester</u>	Credit Hours	<u>Second Semester</u>	Credit Hours
CE 401 - Seminar**	1	CE 429 - CE Systems Design**	4
CE 461G - Hydrology**	3	CE Tech Design Elective (6)	3
Structures Elective (4)	3	Supportive Elective (7)	3
Tech Elective***	3	Tech Elective***	3
Tech Elective***	3	US: Cross Cultural Elective (2)	3
Engr Science Elective (5)	3		
Semester Hours	16	Semester Hours	16

TOTAL SEMESTER HOURS

133

R = Recommended University Studies Course

** CE communication throughout the curriculum component

*** Technical Electives are to be chosen from any of the courses at the 300-level or above that carry a CE prefix and in which a student is qualified to enroll, exclusive of required courses. CHE 230 or CHE 236 and EM 531 are acceptable. **Engineering elective courses are typically taught once per year.**

- (1) COM 252 - Interpersonal Communication or COM 281 - Communication in Small Groups
- (2) Either the Humanities or Cross-Cultural Elective can be used to simultaneously satisfy the second-tier University Writing requirement. In the Humanities area, choosing from the ENG 200-level humanities courses satisfies both. In the Cross Cultural area ENG 264 satisfies both. Only one second-tier writing course is required to meet the graduation writing requirements. Completion of the second-tier course must be in the sophomore year or later and after ENG 104.
- (3) Math Elective Options: MA 321, MA 322, MA 416G or MA 432G
- (4) CE 482 (non-structural option) or CE 486G and CE 487G (technical elective)
- (5) ME 220 - Thermodynamics or EM 313 - Dynamics
- (6) CE 403, 451, 505, 533, 539, 549, 579 or 589 (**NOTE:** CE 579 is a co-requisite for CE 589)
- (7) Supportive elective is to be chosen from any university course excluding more elementary versions of required courses such as pre-calculus mathematics or PHY 211. However, each CE area has at least one recommendation for the supportive elective. Please review the Optional Specialization section in the Civil Engineering Undergraduate Handbook. The supportive elective can be taken P/F.