

Bachelor of Science in Engineering Civil Concentration

Course #
Course Name
Prerequisite
Semester Taken

1st-fall	2nd	3rd	4th
1st-spring	2nd	3rd	4th

Pre-Engineering (46 cr.)

MATH 111 Calculus I (F,S)	MATH 112 Calculus II (F,S) <i>MATH 111</i>	MATH 211 Calculus III (F,S) <i>MATH 112</i>	¹MATH 270 Adv. Math for Sci (S) <i>MATH 112</i>	PHYS 211 Gen. Physics I (S) <i>MATH 111</i>	PHYS 212 Gen. Physics II (F) <i>PHYS 211</i>	CHEM 105 Gen. Chemistry I (F)
ENGR 101 Engr. Graphics (J)	ENGR 102 Intro. to Engr. (F)	ENGR 201 Group Orien. (S) <i>ENGR 102</i>	ENGR 231 Statics (F) <i>PHYS 211</i>	ENGR 236 Circuits I (F,S) <i>MATH 111</i>	ENGR 254 Materials Engr. (S) <i>MATH 211/OPI</i>	

Upper Division Engineering (10 cr.)

ENGR 288 Project I (F) <i>ENGR 201</i>	ENGR 290 Engr. Economics (J) <i>UD Standing</i>	ENGR 301 Seminar I (F,S) <i>Adm. to Major</i>	ENGR 302 Seminar II (F,S) <i>ENGR 301</i>	ENGR 388 Project II (S) <i>ENGR 288</i>	ENGR 488 Project III (F) <i>ENGR 388</i>	ENGR 489 Project IV (S) <i>ENGR 488</i>
---	--	--	--	--	---	--

Civil Concentration (33 cr.)

ENGR 242 Exp. Methods (F,S) <i>PHYS 211</i>	ENGR 321 Environmental Engr. (F) <i>CHEM 105</i>	ENGR 322 Water Resources (F) <i>ENGR 321</i>	²ENGR 333 Mechanics of Mat. (F) <i>M211/E231/OPI</i>	ENGR 351 Analysis & Dynamics (F) <i>ENGR 333</i>	ENGR 352 Design Concrete (S) <i>ENGR 351</i>	ENGR 355 Soil Mechanics (F) <i>ENGR 333</i>
ENGR 357 Transportation Engr (S)	ENGR 358 Construction Methods (S) <i>Jr Status</i>	ENGR 372 Fluid Mechanics (S) <i>M211/E232</i>	ENGR 452 Design Steel Structures (F) <i>ENGR 352</i>			³ENGR 232 Engr. Dynamics (S) <i>E231/P211</i>

General Education (42 cr.)

IDFY 101 First Year Seminar	Oral Communication	IDCR 151 Created & Called	Social Sci./History	History	Literature	PHED 101 Intro. to Wellness
Physical Fitness	Philosophy and Religion	Language I	Language II	Non-West./Cross Cult.	Bible	Christian Beliefs
Ethics/W.View/Pluralism	Writing Enriched					

¹MATH 270 *Advanced Math for the Sciences* may be replaced by both MATH 261 *Linear Algebra* AND MATH 308 *Differential Equations*.

²ENGR 333 *Mechanics of Materials* may be taken in the 5th semester, concurrent with ENGR 351 *Structural Analysis*.

³ENGR 232 *Engineering Dynamics* may be taken, but will not count towards the Civil Engineering concentration.