Civil Engineering Course Plan

Catalog Year 2020-2021

Legend

* Major Requirement

Must be taken to fulfill major requirements.

† Major Elective

Must be taken to fulfill major requirements, or replaced with an equivalent course.

‡ Gen-Ed Requirement

Must be taken to fulfill general education requirements.

§ Elective

Can be chosen from a selection of courses.

See MyGFU for detailed academic requirements.

First Year

Fall Semester

Engineering Principles I (ENGR 151) *	3 credits
General Chemistry (CHEM 211) *	4 credits
Calculus I (MATH 201) *	4 credits
Knowing and Being Known (LIBA 100) ‡	3 credits
I Believe I (THEO 101) ‡	3 credits
Semester Total	**17 credits**
Cumulative Total	**17 credits**

Spring Semester

Engineering Principles II (ENGR 152) *	3 credits
General Physics with Calculus (PHYS 211) *	4 credits
Calculus II (MATH 202) *	4 credits
Introduction to Communication (COMM 100) ‡	3 credits
I Believe II (THEO 102) ‡	3 credits
Semester Total	**17 credits**
Cumulative Total	**34 credits**

Second Year

Fall Semester

Principles of Materials Science (ENGM 250) *	3 credits
Statics (ENGM 211) *	3 credits
Engineering Surveying (ENGC 220) *	2 credits
General Physics with Calculus (PHYS 212) *	4 credits
Calculus III (MATH 301) *	3 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
Semester Total	**17 credits**
Cumulative Total	**51 credits**

Spring Semester

Thermodynamics (ENGM 311)

Fourth Year

Fall Semester

Senior Design I (ENGR 481) *	1 credits
Engineering Senior Seminar (ENGR 490) *	1 credits
Engineering Economics (ENGC 360) *	2 credits
Construction Management & Professional Practice (ENGC 450) *	2 credits
HUMA 290 or Alternate Fine Arts GE Requirement ‡	3 credits
Engaging Christ in Transition (LIBA 400) ‡	3 credits
Bible Elective GE Requirement (THEO 215 or 315) ‡	3 credits
Semester Total	**15 credits**
Cumulative Total	**115 credits**

Spring Semester

Senior Design II (ENGR 482) *	3 credits
Design of Steel Structures (ENGC 460) *	3 credits
Reinforced Concrete Design (ENGC 430) *	3 credits
Principles of Macroeconomics or Microeconomics (ECON 211 or 212) *	3 credits
History/Politics/International Affairs GE Requirement ‡	3 credits
Semester Total	**15 credits**
Cumulative Total	**130 credits**

Notes