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Civil Engineering, B.S.C.I.E.



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Degree Awarded: Bachelor of Science in Civil Engineering
Total Credit Hours: 131
Career Opportunities: Construction industry, engineering or architectural firms, utility or oil companies, telecommunications

Note(s):

A grade of "C" or better is required in all courses in the College of Engineering and the College of Sciences that are used toward the degree.

A minimum of 2.0 cumulative average (major GPA) is required on all hours attempted in the major department (CIVE) and engineering courses that apply toward the degree.

All MATH, SCI, and ENGR courses must be completed or will be completed as co-requisites to enroll in a CIVE 400-level course.

Students are responsible for completing all course prerequisites before enrolling in a course.

General Education Core Curriculum, Civil Engineering

[Core Curriculum](#)

Freshman Year

Required Courses

- UNIV 100 – First Year Seminar **3 Credit(s)**
- CHEM 107 – General Chemistry I **3 Credit(s)**
- CHEM 108 – General Chemistry II **3 Credit(s)**
- CHEM 115 – General Chemistry Laboratory **2 Credit(s)**
- CIVE 101 – Introduction to Civil Engineering **1 Credit(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit(s)**
- ITEC 270 – Introduction to CAD **3 Credit(s)**
- MATH 270 – Calculus I **4 Credit(s)**
- MATH 301 – Calculus II **4 Credit(s)**
- PHYS 201 – General Physics I **4 Credit(s)**

Total: 33 Credits

Sophomore Year

Required Courses

- CIVE 225 – Surveying **3 Credit(s)**
- ENGR 211 – Statics **3 Credit(s)**
- ENGR 219 – Mechanics of Materials **3 Credit(s)**
- ENGR 304 – Fluid Mechanics **3 Credit(s)**
- ENGR 313 – Dynamics **3 Credit(s)**
- MATH 302 – Calculus III **4 Credit(s)**
- MATH 350 – Differential Equations **3 Credit(s)**
- PHYS 202 – General Physics II **4 Credit(s)**
- PHYS 215 – Physics Laboratory I **1 Credit(s)**

Electives

Social/Behavioral Sciences (3 Credits)

Choose from the General Education Core list of Social/Behavioral Science courses. Three hours must be at the 200-level or above.

Communication (3 Credits)

Choose in consultation with advisor.

Total: 33 Credits

Junior Year

Required Courses

- CIVE 322 – Environmental Engineering I **3 Credit(s)**
- CIVE 328 – Geotechnical Engineering **4 Credit(s)**
- CIVE 332 – Structural Mechanics I **3 Credit(s)**
- CIVE 345 – Transportation Engineering **3 Credit(s)**
- CIVE 426 – Structural Steel Design **3 Credit(s)**
- CIVE 429G – Hydrology **3 Credit(s)**

Electives

Statistics (3 Credits)

Choose from 300/400-level STAT courses.

English Literature (3 Credits)

Choose from the General Education Core list of Literature courses in consultation with advisor.

History (3 Credits)

Choose from the General Education Core list of History courses in consultation with advisor.

Fine Arts (3 Credits)

Choose from the General Education Core list of Fine Arts courses.

Natural Sciences (3 Credits)

Choose from the General Education Core list of Natural Science courses in consultation with advisor. Three hours must be at the 200-level or above.

Total: 34 Credits

Senior Year

Required Courses

- CIVE 422G – Environmental Engineering II **3 Credit(s)**
- CIVE 427 – Reinforced Concrete **3 Credit(s)**
- CIVE 434G – Hydraulics **3 Credit(s)**
- CIVE 438G – Foundation Engineering **3 Credit(s)**
- CIVE 442 – Senior Civil Engineering Design **3 Credit(s)**
- CIVE 444 – Civil Engineering Seminar **1 Credit(s)**
- CIVE 450G – Highway Engineering **3 Credit(s)**
- CIVE 480 – Construction Engineering **3 Credit(s)**
- ECON 430G – Industrial Economics and Finance **3 Credit(s)**

Elective

Civil Engineering (6 Credits)

Choose in consultation with advisor.

Total: 31 Credits

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