CIVIL ENGINEERING, BSCV

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 128

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

All General Education coursework requirements are satisfied upon completion of this degree plan

English Composition

See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)

GENERAL EDUCATION REQUIREMENTS

ENGL 1113  Composition I  3
or ENGL 1313  Critical Analysis and Writing I

ENGL 3323  Technical Writing  3
or ENGL 1213  Composition II
or ENGL 1413  Critical Analysis and Writing II

American History & Government

Select one of the following: 3

HIST 1103  Survey of American History
HIST 1483  American History to 1865 (H)
HIST 1493  American History Since 1865 (DH)

POLS 1113  American Government  3

Analytical & Quantitative Thought (A)

MATH 2144  Calculus I (A)  4
MATH 2153  Calculus II (A)  3

Humanities (H)

Courses designated (H)  6

Natural Sciences (N)

Must include one Laboratory Science (L) course.

CHEM 1414  General Chemistry for Engineers (LN)  1
or CHEM 1314  Chemistry I (LN)

BIOI 1114  Introductory Biology (LN)  4
or BIOL 1113  Introductory Biology (N)
& BIOL 1111  and Introductory Biology Laboratory (LN)
or GEOL 1114  Physical Geology (LN)

PHYS 2014  University Physics I (LN)  4

Social & Behavioral Sciences (S)

SPCH 2713  Introduction to Speech Communication (S)  3

Hours Subtotal  40

Diversity (D) & International Dimension (I)

May be completed in any part of the degree plan.

Select at least one Diversity (D) course
Select at least one International Dimension (I) course

College/Departmental Requirements

Basic Science

Select one of the following options: 1

PHYS 2114  University Physics II (LN)
& CIVE 2081  and Environmental Chemistry for Engineers  1

or

CHEM 1515  Chemistry II (LN)  1

Mathematics

MATH 2163  Calculus III  3

Engineering

ENGR 1111  Introduction to Engineering  1
ENGR 1322  Engineering Design with CAD  2
ENGR 1412  Introductory Engineering Computer Programming

Engineering Science

ENSC 2113  Statics  3
ENSC 2123  Elementary Dynamics  3
ENSC 2143  Strength of Materials  3
ENSC 2141  Strength of Materials Lab  1

Civil Engineering

CIVE 2041  Civil and Environmental Engineering Seminar  1
CIVE 3614  Engineering Surveying  4
CIVE 3813  Environmental Engineering Science  3

Hours Subtotal  31

Major Requirements

Mathematics

MATH 2233  Differential Equations  3
STAT 4033  Engineering Statistics  3
or STAT 4073  Engineering Statistics with Design of Experiments

Engineering Science

ENSC 3233  Fluid Mechanics  3
ENSC 3231  Fluids and Hydraulics Lab  1

Civil Engineering

CIVE 3413  Structural Analysis  3
CIVE 3513  Structural Steel Design  3
CIVE 3523  Reinforced Concrete Design  3
CIVE 3623  Engineering Materials Laboratory  3
CIVE 3633  Transportation Engineering  3
CIVE 3714  Introduction to Geotechnical Engineering  4
CIVE 3833  Applied Hydraulics  3
CIVE 3843  Hydrology I  3
CIVE 4041  Engineering Practice  1
CIVE 4043  Senior Design  3
CIVE 4273  Construction Engineering and Project Management
CIVE 4833  Unit Operations in Environmental Engineering

Industrial Engineering & Management

IEM 3503  Engineering Economic Analysis  3

Hours Subtotal  48

Electives

Select 9 hours of the following:

CIVE 4010  Civil Engineering Research
CIVE 4013  Aquatic Chemistry
Chem 1515 fulfills the requirements for both CHEM 1414 and CIVE 2081.

**Other Requirements**

**Graduation Requirements**

1. A minimum 2.00 Technical GPA. The technical GPA is calculated from all courses counting in the curriculum with a prefix belonging to the degree program, or substitutions for these courses.
2. If “B” or higher is not earned in ENGL 1113 Composition I, then ENGL 1213 Composition II must be completed.
3. A “C” or better is required in all CIVE, ENSC, and Math prefixed courses required in the degree.
4. The major engineering design experience, capstone course, is satisfied by CIVE 4043 Senior Design.

**Additional State/OSU Requirements**

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2029.