# CIVIL ENGINEERING: ENVIRONMENTAL, BSCV

Requirements for Students Matriculating in or before Academic Year 2019-2020. 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>ENGL 1113</td>
<td>Composition I (^1)</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1213</td>
<td>Composition II</td>
<td></td>
</tr>
<tr>
<td>or ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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## American History & Government
Select one of the following:
- HIST 1103  Survey of American History
- HIST 1483  American History to 1865 (H)
- HIST 1493  American History Since 1865 (DH)

POLS 1113  American Government

## Analytical & Quantitative Thought (A)
- MATH 2144  Calculus I (A) \(^1\)
- MATH 2153  Calculus II (A) \(^1\)
- MATH 2163  Calculus III \(^1\)

## Humanities (H)
Courses designated (H)

## Natural Sciences (N)
Must include one Laboratory Science (L) course.
- CHEM 1414  General Chemistry for Engineers (LN) \(^1\)
  or CHEM 1515  Chemistry II (LN)
- BIOC 2344  Chemistry and Applications of Biomolecules
  or BIOL 1114  Introductory Biology (LN)

## Social & Behavioral Sciences (S)
- SPCH 2713  Introduction to Speech Communication (S)

Select 3 hours of any course designated (S)

## Hours Subtotal
42

## 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
- PHYS 2014  University Physics I (LN) \(^1\)
- PHYS 2114  University Physics II (LN) \(^1\)

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<tbody>
<tr>
<td>ENGR 1111</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 1322</td>
<td>Engineering Design with CAD</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 1412</td>
<td>Introductory Engineering Computer Programming</td>
<td></td>
</tr>
</tbody>
</table>

## Engineering Science
- ENSC 2113  Statics \(^1\)
- ENSC 2123  Elementary Dynamics \(^1\)
- ENSC 2143  Strength of Materials \(^1\)

## Civil Engineering
- CIVE 2041  Civil and Environmental Engineering Seminar
- CIVE 3614  Engineering Surveying
- CIVE 3813  Environmental Engineering Science

## Hours Subtotal
30

## Major Requirements
### Mathematics
- MATH 2233  Differential Equations \(^1\)
- STAT 4033  Engineering Statistics
  or STAT 4073  Engineering Statistics with Design of Experiments

### Engineering Science
- ENSC 3233  Fluid Mechanics \(^1\)

## Industrial Engineering & Management
- IEM 3503  Engineering Economic Analysis

## Hours Subtotal
47

## Electives
Select 9 hours of the following:
- CIVE 4010  Civil Engineering Research
- CIVE 4013  Aquatic Chemistry
- CIVE 4033  GIS Applications for Water Resources
- CIVE 4050  Special Topics in Civil & Environmental Engineering
- CIVE 4123  The Legal & Regulatory Environment of Civil Engineering
- CIVE 4243  Use and Design of Geosynthetics
- CIVE 4863  Advanced Unit Operations in Environmental Engineering
- CIVE 4873  Air Pollution Control Engineering
- CIVE 4883  Introduction to Environmental Modeling
CIVE 4913  Groundwater Hydrology
CIVE 4923  Environ Risk Assessment
CIVE 4933  Water Treatment
CIVE 4943  Risk and Failure Analysis of Dams
CIVE 4963  Open Channel Flow
CIVE 4983  Residuals & Solid Waste Management

ENGR 4043 or ENGR 4060 may be used for one CIVE elective.

<table>
<thead>
<tr>
<th>Hours Subtotal</th>
<th>9</th>
</tr>
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<td>Total Hours</td>
<td>128</td>
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</table>

1  Complete courses prior to admission to Professional School.

**Other Requirements**

**Admission to Professional School (required)**

- Refer to the OSU Catalog corresponding to your matriculation date for detailed admissions requirements.

**Graduation Requirements**

1. A minimum GPA of 2.00 is required in Professional School coursework (right hand column).
2. A ‘C’ or better is required in each course that is a prerequisite for a CIVE course.
3. The major engineering design experience, capstone course, is satisfied by CIVE 4143 Environmental Engineering Design. If "B" or higher is not earned in ENGL 1113 Composition I, then ENGL 1213 Composition II must be completed.

**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 2025.