CIVIL ENGINEERING, BSCV

Requirements for Students Matriculating in or before Academic Year 2021-2022. 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>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td></td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
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<tr>
<td>or ENGL 1213</td>
<td>Composition II</td>
<td></td>
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<tr>
<td>or ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
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American History & Government
Select one of the following:

- HIST 1103 | Survey of American History               | 3     |
- 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  | 4     |
- or CHEM 1515 | Chemistry II (LN)  |       |
- BIOL 1114 | Introductory Biology (LN)                | 4     |
- 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     |

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

Mathematics
- MATH 2163 | Calculus III                             | 3     |

Basic Science
- CIVE 2081 | Environmental Chemistry for Engineers ¹ | 1     |
- PHYS 2114 | University Physics II (LN)               | 4     |

Engineering

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

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                | 3     |

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 | 3     |
- CIVE 4833 | Unit Operations in Environmental Engineering | 3     |

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                        |       |
- CIVE 4033 | GIS Applications for Water Resources      |       |
- CIVE 4050 | Special Topics in Civil & Environmental Engineering |       |
- CIVE 4103 | Construction Simulation                   |       |
- CIVE 4113 | Construction Business Management          |       |
- CIVE 4123 | The Legal & Regulatory Environment of Civil Engineering |       |
- CIVE 4133 | Construction Contracts and Specifications |       |
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. A ‘C’ or better is required in all CIVE, ENSC, and Math prefixed courses required in the degree.
3. If “B” or higher is not earned in ENGL 1113 Composition I, then ENGL 1213 Composition II must be completed.
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 2027.

1 Chem 1515 fulfills the requirements for both CHEM 1414 and CIVE 2081.