CIVIL ENGINEERING DEGREE

Students must also complete the Undergraduate Registration Requirement (https://catalogs.northwestern.edu/undergraduate/requirements-policies/undergraduate-registration-requirement/) and the degree requirements of their home school.

Requirements (48 units)

Core courses (32 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mathematics courses (<a href="https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext">https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext</a>)</td>
<td></td>
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<tr>
<td>4 engineering analysis and computer proficiency courses (<a href="https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext">https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext</a>)</td>
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</tbody>
</table>
| 4 units of basic science.²  
PHYSICS 135-2 General Physics  
CHEM 131-0 General Chemistry I  
or CHEM 151-0 Accelerated General Chemistry I  
or CHEM 171-0 Advanced General Inorganic Chemistry |
| 1 unit in biological sciences, or  
CIV_ENV 203-0 Earth in the Anthropocene  
or EARTH 201-0 Earth Systems Revealed  
or EARTH 202-0 Earth’s Interior |
| 1 additional unit in biological sciences, chemistry, or physics, or  
EARTH 201-0 Earth Systems Revealed  
or EARTH 202-0 Earth’s Interior  
or CIV_ENV 203-0 Earth in the Anthropocene |
| 3 design and communications courses (https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext) |
| 5 basic engineering courses:  
CIV_ENV 216-0 Mechanics of Materials I  
MECH_ENG 241-0 Fluid Mechanics I  
MECH_ENG 222-0 Thermodynamics & Statistical Mechanics - I  
or BMD_ENG 250-0 Thermodynamics  
or CHEM_ENG 211-0 Thermodynamics  
CIV_ENV 306-0 Uncertainty Analysis  
CIV_ENV 304-0 Civil and Environmental Engineering Systems Analysis |
| 7 social sciences/humanities courses (https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext) |
| 5 unrestricted electives (https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext) |

1 unit of unrestricted electives is from Chemistry lab, PHYSICS 136-2, and CIV_ENV 301-1

See general requirements (https://catalogs.northwestern.edu/undergraduate/engineering-applied-science/#requirementstext) for details.

PHYSICS 125-2 General Physics for ISP or PHYSICS 140-3 Fundamentals of Physics may be substituted for PHYSICS 135-2 General Physics. Associated lab is PHYSICS 126-2 Physics for ISP Laboratory or PHYSICS 136-2 General Physics Laboratory.

Major Program (16 units)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
</table>
| 2 Basic Courses: choose 2 from below  
CIV_ENV 220-0 Structural Art |

Civil Engineering Degree