Civil Engineering Graduation Requirements
University of Washington
https://ce.washington.edu

Requirement Sheet Key
◆ = Upper-Division Admission Requirements
* = Also counts towards Engineering Fundamentals

Mathematics (24 Credits)
◆ MATH 124 (5cr) - Calculus I
◆ MATH 125 (5cr) - Calculus II
◆ MATH 126 (5cr) - Calculus III
MATH 307 (3cr) - Differential Equations [pr: Math 125]
◆ MATH 308 (3cr) - Matrix Algebra [pr: Math 126]
(Amath 351/352 may substitute Math 307/308)
One course from the following:
IND E 315 (3cr) - Prob. & Stat. for Engrs. [pref: Math 307]
-OR-

Natural Sciences (25 Credits)
◆ CHEM 142 (5cr) - General Chem I with Lab
CHEM 152 (5cr) - General Chem II with Lab
◆ PHYS 121 (5cr) - Mechanics with Lab I [pr: Math 124]
◆ PHYS 122 (5cr) - Electro/Oscillatory with Lab II
PHYS 123 (5cr) - Waves with Lab III

Written & Oral Communications (12 Credits)
◆ English Comp (5cr) - English Composition
ENGR 231 (3cr) - Intro to Technical Writing
Additional Composition or Writing (4cr)

Visual, Literary & Performing Arts/Individuals & Society (VLPA/I&S) (24 Credits)
10 credits of VLPA
10 credits of I&S
4 credits of VLPA or I&S (ECON 200/201 count towards both I&S and Economics requirement below.)
3 credits of Diversity (DIV)
(DIV can overlap with VLPA or I&S)

Engineering Fundamentals (20 Credits)
◆ AA 210 (4cr) - Statics [pr: Math 126, Phys 121]
◆ CEE 220 (4cr) - Mechanics of Materials [pr: AA 210]
◆ ME 230 (4cr) - Kinematics & Dynamics [pr: AA 210]
◆ AMATH 301 (4cr) - Beg. Scientific Computing [pr: Math 125]
-OR- CSE 142 (4cr) - Computer Programming I
(Note: AMATH 301 preferred)
One course from the following list:
ME 123 (4cr), MSE 170 (4cr), EE 215 (4cr),
IND E 250 (4cr), AA 260 (4cr)

Economics (CE Topic Requirement) (4-5 Credits)
One of the following:
ECON 200 (5cr) – Microeconomics;
ECON 201 (5cr) – Macroeconomics;
IND E 250* (4cr) - Fund. of Engineering Economy

CE Core Courses (40 Credits)
CEE 307 (5cr) - Construction Engineering
CEE 317 (5cr) - GeoSurveying
CEE 327 (5cr) - Transportation Engineering
CEE 337 (5cr) - Construction Materials
CEE 347 (5cr) - Introduction to Fluid Mechanics
CEE 357 (5cr) - Environmental Engineering
CEE 367 (5cr) - Geotechnical Engineering
CEE 377 (5cr) - Introduction to Structural Design

Professional Practice and Capstone (7 Credits)
CEE 440 (2cr) - Professional Practice Studio
Capstone Design Project -
One of the following:
CEE 441 (5cr) - Transportation and Construction
CEE 442 (5cr) - Structural Geotechnical
CEE 444 (5cr) - Water Resources & Hydraulic Engr.
CEE 445 (5cr) - Environmental Engineering

CE Technical Electives (15 Credits)
Three “core” courses, each one selected from a different category of departmental emphasis. See “Core Courses” list on CEE website. Complete additional 400-level CEE courses, not used to fulfill other requirements, for a total of 15 credits.

Upper-Division Engr. and Science (12 Credits)
Any 400-level CEE courses not used elsewhere. If pre-approved, courses from outside the department may also apply or if approved by petition. List available on CEE website.

Total Credits Required for Graduation (180 Credits)

Early Admission Requirements
1. Early Admission is an option for Autumn Quarter only.
2. Students must be enrolled at UW Seattle.
3. MATH 124, 125 & 126 or equivalent.
4. 10 credits of physical science courses plus accompanying lab at the level of CHEM 142, 152; PHYS 121, 122, 123.
5. 5 credits of English composition.
6. 15 credits must have been completed at UW.

Application Deadlines
Autumn 2018 admission: Early and Upper-Division - July 1st Autumn 2019 admission and beyond: April 5th annually

Last revised January 2018
**This is a sample four-year plan. It is intended to provide a framework for students to reference as they create their own individual academic plan.**

<table>
<thead>
<tr>
<th>Freshman - Autumn Quarter</th>
<th>Freshman - Winter Quarter</th>
<th>Freshman - Spring Quarter</th>
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<tbody>
<tr>
<td>Math 124 - Calculus I</td>
<td>Math 125 - Calculus II</td>
<td>Math 126 - Calculus III</td>
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<tr>
<td>Chem 142 - Chem &amp; Lab I</td>
<td>Chem 152 - Chem &amp; Lab II</td>
<td>Phys 121 - Mechanics &amp; Lab I</td>
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<td>VLPA/I&amp;S</td>
<td>CEE 100 - Introduction to CEE VLPA/I&amp;S</td>
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<td>English Composition</td>
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<th>Sophomore - Autumn Quarter</th>
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<tbody>
<tr>
<td>MATH 308 - Matrix Algebra</td>
<td>CEE 220 - Mech. of Materials</td>
<td>ME 230 - Kinematics/Dynamics</td>
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<td>IND E 250 - Engr. Economy</td>
<td>ENGR 231 - Technical Writing</td>
<td>VLPA/I&amp;S</td>
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<td>Quarter Total</td>
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<td>CEE 317 - Geosurveying</td>
<td>CEE 347 - Intro to Fluid Mechanics</td>
<td>CEE 327 - Transportation Engr.</td>
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<td>CEE 337 - Construction Materials</td>
<td>CEE 307 - Construction Engineering</td>
<td>CEE 367 - Geotechnical Engineering</td>
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<td>CEE 377 - Intro. to Structural Design</td>
<td>CEE 357 - Environmental Engr.</td>
<td>CEE 4xx or grad requirement or other elective</td>
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<tr>
<td>CEE Technical Elective</td>
<td>CEE 440 - Design Practicum</td>
<td>CEE Capstone</td>
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<td>CEE Technical Elective CEE</td>
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**Bold face courses are required for upper-division admission.**

^ CHEM 152 - Recommended for students considering multiple engineering departments

See CE website for list of technical electives.

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**For more information, contact:**

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OR

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