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

This resource is for ENGRUD students who entered the UW in AUT21 or later.

ENGRUD Requirement Sheet – Key:
◆ = Placement Requirements;
★ = Pick one to satisfy placement requirement
Placement: July 1 at the end of the first year

◆ E-FIG: ENGR 101 and GEN ST 199 (2cr)

Mathematics (24-25cr)
◆ MATH 124, 125, 126 - Calc. w/ Analytic Geom I-III (15cr)
MATH 207 - Intro to Differential Equations (3cr)
[pr: MATH 125] OR AMATH 351
MATH 208 - Matrix Algebra with Applications (3cr)
[pr: MATH 126] OR AMATH 352
IND E 315 - Probability & Statistics for Engineers (3cr)
[pr: MATH 136, MATH 207 or AMATH 351]
OR STAT 390 - Statistical Methods in Engr. & Science (4cr)

Sciences (25cr)
◆ CHEM 142 - General Chemistry (5cr)
★ CHEM 152 - General Chemistry (5cr)
[pr: CHEM 142, CHEM 143, or CHEM 145]
◆ PHYS 121 - Mechanics (5cr)
[pr: MATH 124 or MATH 134]
★ PHYS 122 - Electromagnetism (5cr)
[pr: MATH 125 or MATH 134, PHYS 121]
★ PHYS 123 - Waves (5cr)
[pr: MATH 126 or MATH 134, PHYS 122]

Engineering General Education Requirements (36cr)
Written and Oral Communication:
◆ English Composition (5cr)
ENGR 231 - Intro to Technical Communication (3cr)
Additional writing (4cr)

Areas of Knowledge:
Visual, Literary & Performing Arts - VLPA (10cr)
Individuals & Society - I&S (10cr)
VLPA or I&S (4cr)
Diversity - DIV (3cr) (may overlap with VLPA / I&S)

Economics (4-5cr)
ECON 200 - Microeconomics (5cr) (can satisfy I&S),
OR IND E 250 – Fund Engr Economy (4cr) (can satisfy Engr. Fundamentals)

Engineering Fundamentals (16cr)
★ AMATH 301 - Beginning Scientific Computing (4cr)
[pr: MATH 125, Q SCI 292, or MATH 134]
OR
★ CSE 142 - Computer Programming I (4cr)
OR
★ CSE 160 - Data Programming I (4cr)

Engineering Fundamentals (cont’d)
AA 210 - Engineering Statics (4cr)
[pr: MATH 126; PHYS 121]
CEE 220 - Intro to Mechanics of Materials (4cr)
[pr: AA 210]
ME 230 - Kinematics and Dynamics (4cr)
[pr: AA 210]

Additional Engineering Fundamentals Course (4cr)
Choose one: A A 260; E E 215; IND E 250; M E 123; MSE 170

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

Professional Practice & Capstone (7cr)
CEE 440 - Professional Practice Studio (2cr)
AND
Capstone (one from): CEE 441, 442, 444, or 445 (5cr)

Civil Engineering Technical Electives (15cr)
See department for a list of approved courses; this includes at least one course from three separate areas of concentration: Construction, Structural, Geotechnical, Transportation, Hydrology or Environmental.

Engineering and Science Electives (12-14cr)
a. One basic science course from approved list
b. CEE 400-level course(s) or course(s) from approved list

Free Electives (~2cr)
Additional coursework in any subject area not used elsewhere in degree.

Total credits required for graduation: 180cr

Honors or accelerated sequences of chemistry, math and physics will satisfy the placement requirements.

Updated October 2021
This resource is for ENGRUD students who entered the UW in AUT21 or later.

Civil Engineering
Sample Curriculum
University of Washington
http://ce.washington.edu

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Seattle, WA 98195-2700
Phone: (206) 543-5092
Email: ceadvice@uw.edu

This is a sample four-year plan for ENGRUD students that prepares them to be able to request placement at the end of the first year. It is intended to provide a framework for ENGRUD students to reference as they create their own individual academic plan.

Courses required to request placement for ENGRUD students: ENGR 101; MATH 124, MATH 125, MATH 126; CHEM 142; PHYS 121. English Composition. ENGRUD students who are interested in CivE should choose one of the following: AMATH 301; CHEM 152; CSE 142; ME 123; MSE 170; PHYS 122, PHYS 123.

### First Year

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<th>Quarter</th>
<th>Course Code</th>
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