

This resource is for ENGRUD students who entered the UW in AUT23 or later.



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

**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) (May overlap with A&H, SSc, or DIV)

**Areas of Inquiry:**

Arts & Humanities – A&H (10cr)

Social Sciences - SSc (10cr)

Additional A&H or SSc (4cr)

Diversity - DIV (5cr) (may overlap with A&H or SSc)

**Economics (4-5cr)**

ECON 200 - Microeconomics (5cr) (can satisfy SSc),  
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 122 - Computer Programming II (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

**CivE 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)**

- One basic science course from approved list
- 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.*

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

**Civil and Environmental Engineering Advising**  
Office: 201 More Hall, Box 352700  
Seattle, WA 98195-2700  
Phone: (206) 543-5092  
Email: [ceadvice@uw.edu](mailto: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 122; ME 123; MSE 170; PHYS 122, PHYS 123.**

#### First Year

<u>Autumn Quarter</u>	<u>cr</u>	<u>Winter Quarter</u>	<u>cr</u>	<u>Spring Quarter</u>	<u>cr</u>
◆ MATH 124 - Calc. w Analytic Geom I	5	◆ MATH 125 - Calc w Analytic Geom II	5	◆ MATH 126 - Calc w Analytic Geom III	5
◆ CHEM 142 - General Chemistry	5	★ CHEM 152 - General Chemistry	5	◆ PHYS 121 - Mechanics	5
◆ E-FIG: ENGR 101 & GEN ST 199	2	A&H / SSc	5	◆ English Composition	5
A&H / SSc	3				
Qtr. Total:	<b>15</b>	Qtr. Total:	<b>15</b>	Qtr. Total:	<b>14</b>

#### Second Year

<u>Autumn Quarter</u>	<u>cr</u>	<u>Winter Quarter</u>	<u>cr</u>	<u>Spring Quarter</u>	<u>cr</u>
MATH 208 - Matrix Algebra	3	MATH 207 - Differential Equations	3	AMATH 301 - Beg. Sci Computing	4
PHYS 122 - Electromagnetism	5	PHYS 123 - Waves	5	<u>OR</u> CSE 122 <u>OR</u> CSE 160	
AA 210 - Engineering Statics	4	CEE 220 - Intro to Mechanics of Materials	4	IND E 315 - Prob and Stats for Engineers	3
IND E 250 - Fund of Engineering Econ	4	A&H / SSc	4	ME 230 - Kinematics and Dynamics	4
Qtr. Total:	<b>16</b>	Qtr. Total:	<b>16</b>	ENGR 231 - Intro to Technical Comm	3
				Qtr. Total:	<b>14</b>

#### Third Year

<u>Autumn Quarter</u>	<u>cr</u>	<u>Winter Quarter</u>	<u>cr</u>	<u>Spring Quarter</u>	<u>cr</u>
CEE 317 - GeoSurveying	5	CEE 307 - Construction Engineering	5	CEE 327 - Transportation Engineering	5
CEE 337 - Construction Materials	5	CEE 347 - Intro to Fluid Mechanics	5	CEE 367 - Geotechnical Engineering	5
CEE 377 - Intro to Structural Design	5	CEE 357 - Environmental Engineering	5	CEE Technical Elective	3
Qtr. Total:	<b>15</b>	Qtr. Total:	<b>15</b>	CEE 440 - Design Practicum	2
				Qtr. Total:	<b>15</b>

#### Fourth Year

<u>Autumn Quarter</u>	<u>cr</u>	<u>Winter Quarter</u>	<u>cr</u>	<u>Spring Quarter</u>	<u>cr</u>
CEE Technical Elective	3	Upper Division Engineering & Science Elective	3	CEE Capstone	5
CEE Technical Elective	3	CEE Technical Elective	3	Upper Division Engineering & Science Elective	3
Upper Division Engineering & Science Elective	3	Free Elective	5	Upper Division Engineering & Science Elective	3
CEE Technical Elective	4	A&H / SSc	5	A&H / SSc	2
A&H / SSc	3			Qtr. Total:	<b>13</b>
Qtr. Total:	<b>16</b>	Qtr. Total:	<b>16</b>		

◆ = Placement Requirement

★ = Pick **one** to satisfy placement requirements

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