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| CivE | **Civil Engineering**  **Degree Requirements**  <http://ce.washington.edu>  [ceadvice@uw.edu](mailto:ceadvice@uw.edu) | **ENGRUD Requirement Key:**  ⯁ = **Placement Requirements**  **★** = *Pick* ***one*** *to satisfy placement requirement*  **Placement:** July 1 at the end of the first year |

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| **Engineering First-year Interest Group (E-FIG)**  ⯁ **ENGR 101 (1cr)**  GEN ST 199 (1cr)  **Mathematics (24-28cr)**  ⯁ **MATH 124, 125, 126 - Calc. w/ Analytic Geom I-III (15cr)**  MATH 207 - Intro to Differential Equations (4cr)  [pr: MATH 125] OR AMATH 351 (3cr) [pr: MATH 125]  MATH 208 - Matrix Algebra with Applications (4cr)  OR AMATH 352 (3cr) [pr: MATH 126]  One course from the following:  IND E 315 (3cr), STAT 390 (4cr), Q SCI 381 (5cr)  **Sciences (28-30cr)**  ⯁ **CHEM 142 - General Chemistry (5cr)**  **★ *CHEM 152 - General Chemistry (5cr)***  [pr: CHEM 142]  ⯁ **PHYS 121 - Mechanics (5cr)**  [pr: MATH 124]  **★ *PHYS 122 - Electromagnetism (5cr)***  [pr: MATH 125; PHYS 121]  **★ *PHYS 123 - Waves (5cr)***  [pr: MATH 126; PHYS 122]  Basic Science Elective (3-5cr) - Visit department website for a [list of approved courses](https://www.ce.washington.edu/current/undergrad/civil/gened).  **General Education Requirements (****29-41cr)**  ***Written and Oral Communication:***  ⯁ **English Composition (5cr)**  Writing from the University list (7cr) (may overlap with Areas of Inquiry 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 Areas of Inquiry or W)  **Economics (4-5cr)**  ECON 200 - Microeconomics (5cr) (SSc)  OR IND E 250 - Fund of Engr Economy (4cr)  OR ESRM 235/ ECON 235/ ENVIR 235 (SSc) (5cr)  **Engineering Fundamentals (16cr)**  One course from the following:  **★ *AMATH 301 - Beginning Scientific Computing (4cr)***  [pr: MATH 125 or Q SCI 292]  **★ *CSE 121 - Intro to Computer Programming I (4cr)***  **★ *CSE 122 - Intro to Computer Programming II (4cr)***  **★ *CSE 123 - Intro to Computer Programming III (4cr)***  **★ *CSE 160 - Data Programming (4cr)***  A A 210 - Engineering Statics (4cr)  [pr: MATH 126; PHYS 121] | **Engineering Fundamentals** **(cont’d)**  CEE 220 - Intro to Mechanics of Materials (4cr)  [pr: AA 210]  M E 230 - Kinematics and Dynamics (4cr)  [pr: AA 210]  [**Major Core Requirements**](https://myplan.uw.edu/course/#/courses?states=N4Igwg9grgTgzgUwMoIIYwMYAsQC4TAA6IAZhDALYAiqALqsbkSBqhQA5RyPGJ20AbBMQA0xAJZwUGWuIgA7FOmyMSqAYjEhJASXlxaMKDPJLMWVes3EAjlAQwAnkkPj5Acx4gA5GACift6ixAAmqI7ceMwAjJYaCFoATHHWIADMKQnEACyZWgCsecQAbJkAvloG6LR%2B8iEAKuIUCJG4ANoADCIAnMUdALpabhgCUCEIAHIKAPLsCIoIMnL6jIb2Q-IjYwgASi2uMggh0rIKrWtZ2puj4wAKMA4INnB7duIPIatGl8M3CPUAI1QJ2W52%2BlSwEAA7tN5AJHLcMMhFqcVng1PEIdDYfC9LcHHAFCCzuUsVCAEIwaGIIogLCoKRocxHL7rUKSEYQRAAQRCADdUJsjmYVOirAgyiARCAoew4HgCMQoW4QtCABIIcTuLC0RgAdjSeuyWmVdWhty54lRjESHW6krKQA) **(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 (2cr)**  CEE 440 - Professional Practice Studio (2cr)  **Capstone (5cr)**  One of the following Capstone Design Projects:  CEE 441 - Transportation and Construction  CEE 442 - Structural Geotechnical (W)  CEE 444 - Water Resources and Hydraulic Engineering  CEE 445 - Environmental Engineering  **Civil Engineering Technical Electives (15cr)**  Visit the department website for a [list of approved 400-level courses](https://www.ce.washington.edu/current/undergrad/civil/major-coursework/technical-electives); this includes at least one course from three separate areas of concentration:  Construction  Structural & Mechanics  Geotechnical  Transportation  Hydrology  Hydrodynamics  Environmental  **Engineering and Science Electives (12-14cr)**  Choice of additional CEE 400-level courses. Visit the department website for a [list of approved courses](https://www.ce.washington.edu/current/undergrad/civil/major-coursework/engineering-science-electives). Maximum of 3 credits for CEE 499.  **Free Electives (to reach 180 total credits)**  Additional coursework in any subject area not used elsewhere in degree.  **Total credits required for graduation: 180cr** |

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| Civil Engineering |  | **Questions: Contact ENGRUD Advising**  Email: engradv@uw.edu  Office: IEB 307  Phone: (206) 543-1770 |

This is a sample four-year plan for Civil Engineering to provide ENGRUDs a framework to create their individual academic plan.

Courses required to request placementfor ENGRUD students: **ENGR 101; MATH 124, MATH 125, MATH 126; CHEM 142; PHYS 121; English Composition; choose one: AMATH 301, CHEM 152, CSE 122, ME 123, MSE 170, PHYS 122, PHYS 123.**

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| **Autumn Quarter**  ⯁ **MATH 124 - Calc. w/ Analytic Geom. I**  ⯁ **CHEM 142 - General Chemistry**  ⯁ **E-FIG: ENGR 101 & GEN ST 199**  A&H | **cr**  5  5  2  5 | **Winter Quarter**  ⯁ **MATH 125 - Calc. w/ Analytic Geom. II**  **★ *CHEM 152* - *General Chemistry***  SSc | **cr**  5  5  5 | **Spring Quarter**  ⯁ **MATH 126 - Calc. w/ Analytic Geom. III**  ⯁ **PHYS 121 - Mechanics**  ⯁ **English Composition** | **cr**  5  5  5 |
| Qtr. Total: | **17** | Qtr. Total: | **15** | Qtr. Total: | **15** |

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| **Autumn Quarter**  MATH 208 - Matrix Algebra  PHYS 122 - Electromagnetism  AA 210 - Engineering Statics  IND E 250 - Fund of Engineering Econ | **cr**  4  5  4  4 | **Winter Quarter**  MATH 207 - Differential Equations  PHYS 123 - Waves  CEE 220 - Intro to Mechanics of Materials | **cr**  4  5  4 | **Spring Quarter**  AMATH 301 - Beg. Sci Computing  OR CSE 122 OR CSE 160  IND E 315 - Prob and Stats for Engineers  ME 230 - Kinematics and Dynamics  SSc and DIV | **cr**  4  3  4  5 |
| Qtr. Total: | **17** | Qtr. Total: | **13** | Qtr. Total: | **16** |

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| **Autumn Quarter**  CEE 317 - GeoSurveying  CEE 337 - Construction Materials  CEE 377 - Intro to Structural Design | **cr**  5  5  5 | **Winter Quarter**  CEE 307 - Construction Engineering  CEE 347 - Intro to Fluid Mechanics  CEE 357 - Environmental Engineering | **cr**  5  5  5 | **Spring Quarter**  CEE 327 - Transporation Engineering  CEE 367 - Geotechnical Engineering  CEE 440 – Design Practicum  CEE Technical Elective | **cr**  5  5  2  3 |
| Qtr. Total: | **15** | Qtr. Total: | **15** | Qtr. Total: | **15** |

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| **Autumn Quarter**  CEE Technical Elective  CEE Technical Elective  CEE Technical Elective  Upper Division Engineering & Science Elective | **cr**  3  3  3  3 | **Winter Quarter**  Upper Division Engineering & Science Elective  CEE Technical Elective  Basic Science Elective  A&H/ SSc (with Writing) | **cr**  3  3  4  4 | **Spring Quarter**  CEE Capstone  Upper Division Engineering & Science  Elective  Upper Division Engineering & Science  Elective  A&H (with Writing) | **cr**  5  3  3  5 |
| Qtr. Total: | **12** | Qtr. Total: | **14** | Qtr. Total: | **16** |

**⯁ = Placement Requirement**

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