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| EnvE | **Environmental 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)**  AMATH 351 - Intro to Differential Equations and Apps (3cr)  [pr: MATH 125] OR MATH 207 (4cr) [pr: MATH 125]  AMATH 352 - Appl Linear Algebra and Numerical Analysis (3cr)  [pr: MATH 126] OR MATH 208 (4cr)  One course from the following: IND E 315 (3cr), STAT 390 (4cr),  Q SCI 381 (5cr)  **Sciences (28-30cr)**  BIOL 180 - Introductory Biology (5cr)  ⯁ **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]  Basic Science Elective (3-5cr) - Visit department list for approved courses.  **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 (SSc) (5cr)  OR IND E 250 - Fund of Engr Economy (4cr)  OR ESRM 235/ ECON 235/ ENVIR 235 (SSc) (5cr)  **Engineering Fundamentals (12-13cr)**  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)*** | **Engineering Fundamentals (cont’d)**  A A 210 - Engineering Statics (4cr)  [pr: MATH 126; PHYS 121]  One course from the following:  A A 260 - Thermodynamics (4cr)  [pr: CHEM 142; MATH 126; PHYS 121]  M E 323 (5cr)  [pr: CHEM 142; MATH 126; PHYS 121]  [**Major Core Requirements**](https://myplan.uw.edu/course/#/courses?states=N4Igwg9grgTgzgUwMoIIYwMYAsQC4TAA6IAZhDALYAiqALqsbkSBqhQA5RyPGJ20AbBMQA0xAJZwUGWuIgA7FOmyMSqAYjEhJASXlxaMKDPJLMWVes3EAjlAQwAnkkPj5Acx4gA5GACift6ixAAmqI7ceMwAjJYaCFoATHHWIADMKQnEACyZWgCsecQAbJkAvloG6LR%2B8iEAKuIUCJG4ANoADCIAnMUdALpabhgCUCEIAHIKAPLsCIoIMnL6jIb2Q-IjYwgASi2uMggh0rIKrWtZ2puj4wAKMA4INnB7duIPIatGl8M3CPUAI1QJ2W52%2BlSwEAA7tN5AJHLcMMhFqcVng1PEIdDYfC9LcHHAFCCzuUsVCAEIwaGIIogLCoKRocxHL7rUKSEYQRAAQRCADdUJsjmYVOirAgyiARCAoew4HgCMQoW4QtCABIIcTuLC0RgAdjSeuyWmVdWhty54lRjESHW6krKQA) **(30cr)**  CEE 347 - Introduction to Fluid Mechanics (5cr)  CEE 348 - Hydrology and Environmental Fluid Methods (4cr)  CEE 349 - Case Studies in Environmental Engineering (3cr)  CEE 350 - Mass and Energy Bal in Environmental Engr. (4cr)  CEE 352 - Intro to Microbial Prin. in Environmental Engr. (5cr)  CEE 354 - Intro to Chem Prin. in Environmental Engr. (5cr)  CEE 356 - Quant. and Concept Tools for Sustainability (4cr)  **Professional Practice (2cr)**  CEE 440 - Professional Practice Studio (2cr)  **Capstone (5cr)**  One of the following Capstone Design Projects:  CEE 444 - Water Resources and Hydraulic Engineering  CEE 445 - Environmental Engineering  **Environmental Engineering Tech Electives (15cr)**  CEE 400-level coursework. Visit the department website for [a list of approved courses](https://www.ce.washington.edu/current/undergrad/environmental/major-coursework/technical-electives).  **Engineering & Science Electives (13cr)**  Choice of additional CEE 400-level courses. Visit the department website for [a list of approved courses](https://www.ce.washington.edu/current/undergrad/environmental/major-coursework/engineering-science-electives).  **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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| Environmental Engineering |  | **Questions? Contact ENGRUD Advising**  Email: engradv@uw.edu  Office: IEB 307  Phone: (206) 543-1770 |

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

Courses required to request placement for ENGRUD students: **ENGR 101;** **MATH 124, 125, 126; CHEM 142; PHYS 121; English Composition; choose one: AMATH 301, CHEM 152, CHEM 162, CSE 122, CSE 160, 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 / SSc | **cr**  5  5  2  5 | **Winter Quarter**  ⯁ **MATH 125 *-* Calc. w/ Analytic Geom. II**  **★ *CHEM 152 - General Chemistry***  ⯁ **English Composition** | **cr**  5  5  5 | **Spring Quarter**  ⯁ **MATH 126 *-* Calc. w/ Analytic Geom. III**  **★ *CHEM 162 - General Chemistry***  ⯁ **PHYS 121 *-* Mechanics** | **cr**  5  5  5 |
| Qtr. Total: | **17** | Qtr. Total: | **15** | Qtr.Total: | **15** |

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| **Autumn Quarter**  AMATH 351 - Appl. Differential Equations  **★ *PHYS 122 - Electromagnetism***  A A 210 - Engineering Statics  A&H / SSc | **cr**  3  5  4  4 | **Winter Quarter**  AMATH 352 - Linear Alg & Num. Analysis  **★ *PHYS 123 - Waves***  A&H / SSc (with Writing) | **cr**  3  5  5 | **Spring Quarter**  AMATH 301 - Beg. Sci. Computing  BIOL 180 - Intro Biology I  A A 260 - Thermodynamics  Basic Science Elective | **cr**  4  5  4  3 |
| Qtr. Total: | **16** | Qtr. Total: | **13** | Qtr. Total: | **16** |

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| **Autumn Quarter**  CEE 349 - Case Studies in EnvE  CEE 350 - Mass & Energy Bal in EnvE  CEE 352 - Intro to Microbial Principles in Environmental Engineering  CEE 440- Professional Practice Studio | **cr**  3  4  5  2 | **Winter Quarter**  CEE 347 - Inro to Fluid Mechanics  CEE 354 - Intro to Chemical Principles in Environmental Engineering  IND E 315 | **cr**  5  5  3 | **Spring Quarter**  CEE 348 - Hydrology & Environmental Fluid Methods  CEE 356 - Quantitative & Conceptual Tools for Sustainability  IND E 250 - Engineering Economy  Technical Elective | **cr**  4  4  4  3 |
| Qtr. Total: | **14** | Qtr. Total: | **13** | Qtr. Total: | **15** |

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| **Autumn Quarter**  Technical Elective  Technical Elective  E&S Elective  A&H / SSc | **cr**  3  3  4  5 | **Winter Quarter**  E&S Elective  Technical Elective  DIV  A&H / SSc (with Writing) | **cr**  4  3  5  5 | **Spring Quarter**  CEE 444/445 - Capstone Design  Technical Elective  E&S Elective  E&S Elective | **cr**  5  3  3  3 |
| Qtr. Total: | **15** | Qtr. Total: | **17** | Qtr. Total: | **14** |

⯁ = **Placement Requirement**

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