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| EnvE | **Environmental Engineering****Degree Requirements**<http://ce.washington.edu> 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 EngineeringCEE 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.eduOffice: 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**5525 | **Winter Quarter**⯁ **MATH 125 *-* Calc. w/ Analytic Geom. II****★ *CHEM 152 - General Chemistry***⯁ **English Composition** | **cr**555 | **Spring Quarter**⯁ **MATH 126 *-* Calc. w/ Analytic Geom. III****★ *CHEM 162 - General Chemistry***⯁ **PHYS 121 *-* Mechanics** | **cr**555 |
| 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 StaticsA&H / SSc  | **cr**3544 | **Winter Quarter**AMATH 352 - Linear Alg & Num. Analysis**★ *PHYS 123 - Waves***A&H / SSc (with Writing) | **cr**355 | **Spring Quarter**AMATH 301 - Beg. Sci. ComputingBIOL 180 - Intro Biology IA A 260 - ThermodynamicsBasic Science Elective | **cr**4543 |
| Qtr. Total: | **16** | Qtr. Total: | **13** | Qtr. Total: | **16** |

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| **Autumn Quarter**CEE 349 - Case Studies in EnvECEE 350 - Mass & Energy Bal in EnvECEE 352 - Intro to Microbial Principles in Environmental EngineeringCEE 440- Professional Practice Studio | **cr**3452 | **Winter Quarter**CEE 347 - Inro to Fluid MechanicsCEE 354 - Intro to Chemical Principles in Environmental EngineeringIND E 315 | **cr**553 | **Spring Quarter**CEE 348 - Hydrology & Environmental Fluid MethodsCEE 356 - Quantitative & Conceptual Tools for SustainabilityIND E 250 - Engineering EconomyTechnical Elective | **cr**4443 |
| Qtr. Total: | **14** | Qtr. Total: | **13** | Qtr. Total: | **15** |

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| **Autumn Quarter**Technical ElectiveTechnical ElectiveE&S ElectiveA&H / SSc  | **cr**3345 | **Winter Quarter**E&S ElectiveTechnical ElectiveDIV A&H / SSc (with Writing) | **cr**4355 | **Spring Quarter**CEE 444/445 - Capstone DesignTechnical ElectiveE&S ElectiveE&S Elective | **cr**5333 |
| Qtr. Total: | **15** | Qtr. Total: | **17** | Qtr. Total: | **14** |

⯁ = **Placement Requirement**

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