Environmental Engineering Graduation Requirements
University of Washington
https://ce.washington.edu

**Requirement Sheet Key**
= Admission Requirements

**Mathematics (24 Credits)**
- MATH 124 (5cr) - Calculus I
- MATH 125 (5cr) - Calculus II
- MATH 126 (5cr) - Calculus III
- AMATH 351 (3cr) - Applied Diff. Equations
- AMATH 352 (3cr) - Matrix Algebra
  (MATH 307/308 may substitute for AMATH 351/352)
- IND E 315 (3cr) - Probability & Statistics for Engineers

**Natural Sciences (35 Credits)**
- BIOL 180 (5cr) - Intro Biology
- CHEM 142 (5cr) - General Chem I with Lab
- CHEM 152 (5cr) - General Chem II with Lab
- CHEM 162 (5cr) - General Chem III with Lab
- PHYS 121 (5cr) - Mechanics with Lab
- PHYS 122 (5cr) - Electro/Oscillatory with Lab
- PHYS 123 (5cr) - Waves with Lab

**Written & Oral Communications (12 Credits)**
- English Comp (5cr) - English Composition
- ENGR 231 (3cr) - Intro to Technical Writing
  Additional Composition or Writing (4cr)

**Visual, Literary & Performing Arts/Individuals & Society (VLPA/I&S) (24 Credits)**
- 10 credits of VLPA
- 10 credits of I&S
- 4 credits of VLPA or I&S
- 3 credits of Diversity (DIV)
  (DIV can overlap with VLPA or I&S)

**Engineering Fundamentals (16 Credits)**
- AMATH 301 (4cr) - Beg. Scientific Computing
  -OR-
  CSE 142 (4cr) - Computer Programming I
  (Note: AMATH 301 preferred)
- EE 210 (4cr) - Statics
- CEE 220 (4cr) - Mechanics of Materials
- AA 260 (4cr) - Thermodynamics

**Economics (4-5 Credits)**
- IND E 250 (4cr) - Engineering Econ.
  -OR-
  ECON 200 (5cr) - Micro.

**EnvE Core Courses (29 Credits)**
- CEE 347 (5cr) - Intro to Fluid Mechanics
- CEE 348 (4cr) - Hydrology & Envr. Fluid Mechanics
- CEE 349 (3cr) - Case Studies in Envr. Engineering
- CEE 350 (4cr) - Mass and Energy Balances Envr
- CEE 352 (4cr) - Intro Envr. Chem. & Microbiology
- CEE 354 (5cr) - Env. Engineering Applications
- CEE 356 (4cr) - Quantitative & Conceptual Tools for Sustainability

**EnvE/CEE Senior Courses (7 Credits)**
- CEE 440 (2cr) - Professional Practice
- CEE 444/445 (5cr) - Capstone Design Course

**Technical Electives (15 Credits)**
Select courses from Technical Electives: Core Courses List. Thematic areas are shown to help guide selection: Engineered Systems and Processes, Natural Systems and Processes, and Hydrology and Hydrodynamics. The list of courses can be found on the CEE website.

**Upper-Division Engineering and Science (13 Credits)**
Select courses from within CEE or from approved list of non-CEE courses. A list of courses that are pre-approved is available from the advisors. Students may petition to have courses added to the list.

**Free Electives (varies)**
Additional credits to meet the 180 total required for the baccalaureate degree.

**Total Credits Required for Graduation (180 Credits)**

**Admission Requirements**
The BS EnvE is currently a minimum requirement admission major. Students may declare the major upon successful completion of admission requirements. A minimum GPA of 2.5 in each class and cumulative prerequisite GPA of 3.0 are required.

*Note: We expect the BS EnvE to become capacity constrained as early as 2018.*
**This is a sample four-year plan. It is intended to provide a framework for students to reference as they create their own individual academic plan.**

<table>
<thead>
<tr>
<th>Fresman - Autumn Quarter</th>
<th>Freshman - Winter Quarter</th>
<th>Freshman - Spring Quarter</th>
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<tbody>
<tr>
<td>Math 124 - Calculus I</td>
<td>Math 125 - Calculus II</td>
<td>Math 126 - Calculus III</td>
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<tr>
<td>English Composition</td>
<td>VLP A/I&amp;S</td>
<td>Phys 121 - Mechanics &amp; Lab</td>
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<td>Quarter Total</td>
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<th>Sophomore - Autumn Quarter</th>
<th>Sophomore - Winter Quarter</th>
<th>Sophomore - Spring Quarter</th>
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<tbody>
<tr>
<td>AMATH 351 - Diff. Equations</td>
<td>AMATH 352 - Linear Algebra</td>
<td>AMATH 301 - Scientific</td>
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<td>PHYS 122 - Electro &amp; Lab II</td>
<td>PHYS 123 - Waves &amp; Lab III</td>
<td>Computing*</td>
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<td>A A 210 - Engineering Statics</td>
<td>CEE 220 - Mech. of Materials</td>
<td>- or - CSE 142 + BIOEN 498: MatLab Fundamentals</td>
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<td>VLP A/I&amp;S</td>
<td>VLP A/I&amp;S</td>
<td>BIOL 180 - Intro Biology I</td>
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<td>A A 260 - Thermodynamics</td>
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<tr>
<td>CEE 352 - Envr. Chem. &amp; Microbio.</td>
<td>ENGR 231 - Intro to Technical Writing</td>
<td>IND E 250 - Engineering Economy</td>
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<td>IND E 315 - Stats. for Engineers</td>
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<th>Senior - Autumn Quarter</th>
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<tr>
<td>Technical Elective</td>
<td>CEE 440 - Prof. Practice Studio</td>
<td>CEE 444/445 – Capstone Design</td>
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<td>Quarter Total</td>
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**Bold face courses are required for admission. A minimum grade of 2.5 is required in each class. A cumulative prerequisite GPA of 3.0 is required.**

Currently, students may declare the major upon successful completion of admission requirements. Students who do not meet minimum admission requirements may petition for admission by writing to ceadvice@uw.edu. (Attention: the CEE Undergraduate Committee). We expect the BS EnvE to become capacity constrained as early as 2018.

For more information, contact:

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