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)

- ◆ AA 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) - Envr. 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 <u>sample</u> four -year plan. It is intended to provide a framework for students to reference as they create their own individual academic plan.

| Freshman - Autumn Quarter → Math 124 - Calculus I → Chem 142 - Chem & Lab I → English Composition | 5 5 5 | Freshman – Winter Quarter ♦ Math 125 - Calculus II • Chem 152 - Chem & Lab II VLPA/I&S | 5 5 5 | Freshman – Spring Quarter Math 126 - Calculus III Chem 162 - Chem & Lab III Phys 121 - Mechanics & Lab | 5 5 5 |
|---|------------------|---|------------------------|--|-----------------------------|
| Quarter Total | 15 | Quarter Total | 15 | Quarter Total | 15 |
| Sophomore - Autumn Quarter ◆ AMATH 351 - Diff. Equations ◆ PHYS 122 - Electro & Lab II ◆ A A 210 - Engineering Statics VLPA/I&S Quarter Total Junior - Autumn Quarter CEE 349 - Case Studies in Envr. Engr. CEE 350 - Mass & Energy Balances CEE 352 - Envr. Chem. & Microbio. IND E 315 - Stats. for Engineers | 4 | Sophomore - Winter Quarter ◆ AMATH 352 - Linear Algebra ◆ PHYS 123 - Waves & Lab III ◆ CEE 220 - Mech. of Materials VLPA/I&S Quarter Total Junior - Winter Quarter CEE 347 - Intro to Fluid Mechanics CEE 354 - Envr. Engr. Applications ENGR 231 - Intro to Technical Write | 5 | Computing* -or- CSE 142 + BIOEN 498: MatLab Fundamentals ◆ BIOL 180 - Intro Biology I ◆ A A 260 - Thermodynamics | 4 5 4 13 5 3 |
| Quarter Total Senior - Autumn Quarter Technical Elective Technical Elective UD Elective VLPA/I&S | 3 3 3 5 | Quarter Total Senior - Winter Quarter CEE 440 - Prof. Practice Studio Technical Elective UD Elective VLPA/I&S | 13 2 3 4 5 | Quarter Total Senior - Spring Quarter CEE 444/445 – Capstone Design Technical Elective UD Elective UD Elective | 5 3 3 3 |
| Quarter Total | 14 | Quarter Total | 14 | Quarter Total | 14 |

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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Last revised August 2017