

ENVIRONMENTAL ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering AY 2023-2024

| | |
|----------|------------------------|
| Name: | Class Year: |
| Advisor: | 2 nd Major: |

NOTES: Minimum total academic credit = 15 units

Residency Req.: Min. of 8 units must be completed at WPI

HUMANITIES AND ARTS (6/3 units)

All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum.

| Depth Component | | | | |
|---|--------------------|------|-------|-------|
| Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above. | | | | |
| | Course | Term | Grade | Units |
| 1 | | | | 1/3 |
| 2 | | | | 1/3 |
| 3 | | | | 1/3 |
| 4 | HU 3900 or HU 3910 | | | 1/3 |
| Breadth Component | | | | |
| Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner. | | | | |
| i. art/art history, drama/theatre, and music (AR, EN/TH, MU); | | | | |
| ii. foreign languages (AB, CN, EN, GN, SP); | | | | |
| iii. literature and writing rhetoric (EN, WR, RH); | | | | |
| iv. history and international studies (HI, HU, INTL); | | | | |
| v. philosophy and religion (PY, RE). | | | | |
| Exception: May take all six courses in a foreign language | | | | |
| 5 | | | | 1/3 |
| Humanities Elective | | | | |
| 6 | | | | 1/3 |

WELLNESS AND PHYSICAL EDUCATION (4 WPE classes = 1/3 unit)

| | | | | Units |
|---|--|--|--|-------|
| 7 | | | | 1/12 |
| | | | | 1/12 |
| | | | | 1/12 |
| | | | | 1/12 |

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS, DEV and ID2050

| | | | | |
|---|--|--|--|-----|
| 8 | | | | 1/3 |
| 9 | | | | 1/3 |

THE INTERACTIVE QUALIFYING PROJECT (1 unit)

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|----|--|--|--|-----|
| 10 | | | | 1/3 |
| 11 | | | | 1/3 |
| 12 | | | | 1/3 |

MATHEMATICS AND BASIC SCIENCE (4 units)

MATHEMATICS (6/3 units) Courses with prefix: MA

Must include differential and integral calculus, differential equations, statistics

| | | | | |
|----|--|--|--|-----|
| 13 | | | | 1/3 |
| 14 | | | | 1/3 |
| 15 | | | | 1/3 |
| 16 | | | | 1/3 |
| 17 | | | | 1/3 |
| 18 | | | | 1/3 |

BASIC SCIENCE (6/3 units) Courses with prefix: BB, CH, GE, PH

Must include 1/3 unit of BB (introductory biology, environmental biology, or biodiversity), 3/3 unit chemistry CH including equilibrium and kinetics; 1/3 unit earth science (GE 2341 recommended), 1/3 unit PH (calculus based).

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|----|--|--|--|-----|
| 19 | | | | 1/3 |
| 20 | | | | 1/3 |
| 21 | | | | 1/3 |
| 22 | | | | 1/3 |
| 23 | | | | 1/3 |

| | | | | |
|----|--|--|--|-----|
| 24 | | | | 1/3 |
|----|--|--|--|-----|

SUPPLEMENTAL SCIENCE (1/3 unit) Courses with prefix: BB, CH

Must include 1/3 unit in microbiology, ecology, spectroscopy, or organic chemistry.

| | | | | |
|----|--|--|--|-----|
| 25 | | | | 1/3 |
|----|--|--|--|-----|

ENGINEERING SCIENCE AND DESIGN (5 units)

FUNDAMENTAL ENGINEERING SCIENCE

Fluid Mechanics and Thermodynamics (2/3 unit)

| | | | | |
|----|---------|--|--|-----|
| 26 | ES 3001 | | | 1/3 |
| 27 | ES 3004 | | | 1/3 |

Mechanics and Materials (2/3 unit)

Must Include 2/3 units in Mechanics and Materials (selected from CE 2000 or ES 2501; CE 2001 or ES 2502; ES 2001; ES 2503)

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|----|--|--|--|-----|
| 28 | | | | 1/3 |
| 29 | | | | 1/3 |

Mass Transfer, Heat transfer, Systems Engineering (2/3 unit)

Must Include 2/3 units in mass transfer, heat transfer, and/or systems engineering (selected from ES 3002; ES 3003; ES 3501)

| | | | | |
|----|--|--|--|-----|
| 30 | | | | 1/3 |
| 31 | | | | 1/3 |

ENVIRONMENTAL ENGINEERING

Core Courses (2/3 unit)

Must Include 2/3 unit in core topics, including Environmental Engineering and Hydraulics (fulfilled by CE 3059 and CE 3062)

| | | | | |
|----|--|--|--|-----|
| 32 | | | | 1/3 |
| 33 | | | | 1/3 |

Laboratory Experimentation (2/3 units)

Must include 2/3 unit of laboratory experimentation (Fulfilled by CE 4060 and one of CE 2020 or CE 3026)

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|----|--|--|--|-----|
| 34 | | | | 1/3 |
| 35 | | | | 1/3 |

EVE Breadth and Depth (5/3 units)

Must Include 5/3 unit of environmental engineering breadth and depth courses at the 3000 or 4000 level (selected from CE 3020, CE 3041, CE 3060, CE 3061, CE 4061, CE/CHE 4063, CE 4600, CE 4610, and at most one of CE 3070, CE 3074, or CE 4071)

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|----|--|--|--|-----|
| 36 | | | | 1/3 |
| 37 | | | | 1/3 |
| 38 | | | | 1/3 |
| 39 | | | | 1/3 |
| 40 | | | | 1/3 |

MAJOR QUALIFYING PROJECT (3/3 unit)

Must include 1/3 unit of capstone design

| | | | | |
|----|--|--|--|-----|
| 41 | | | | 1/3 |
| 42 | | | | 1/3 |
| 43 | | | | 1/3 |

FREE ELECTIVES (2/3 unit)

First year GPS courses can only be used to fulfill HUA, SPSS or the Free Elective Requirement

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|----|--|--|--|-----|
| 44 | | | | 1/3 |
| 45 | | | | 1/3 |