

# ENVIRONMENTAL ENGINEERING MAJOR

## Program Tracking Sheet

Effective for students entering AY 2021-2022

Name:	Class Year:
Advisor:	2 <sup>nd</sup> 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.

<b>Depth Component</b>				
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
<b>Breadth Component</b>				
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
<b>Humanities Elective</b>				
6				1/3

**PHYSICAL EDUCATION (4 PE classes = 1/3 unit)**

	Course	Term	Grade	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**

	Course	Term	Grade	Units
8				1/3
9				1/3

**THE INTERACTIVE QUALIFYING PROJECT (1 unit)**

	Course	Term	Grade	Units
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

	Course	Term	Grade	Units
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).

	Course	Term	Grade	Units
19				1/3
20				1/3
21				1/3
22				1/3
23				1/3

	Course	Term	Grade	Units
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.

	Course	Term	Grade	Units
25				1/3

**ENGINEERING SCIENCE AND DESIGN (5 units)**

**FUNDAMENTAL ENGINEERING SCIENCE**

**Fluid Mechanics and Thermodynamics (2/3 unit)**

	Course	Term	Grade	Units
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)

	Course	Term	Grade	Units
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)

	Course	Term	Grade	Units
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)

	Course	Term	Grade	Units
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)

	Course	Term	Grade	Units
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)

	Course	Term	Grade	Units
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

	Course	Term	Grade	Units
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

	Course	Term	Grade	Units
44				1/3
45				1/3