

CIVIL ENGINEERING MAJOR
Program Tracking Sheet
 Effective for students entering AY 2025-2026

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 unit)

All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum. The Humanities and Arts Department will accept a maximum of 1/3 unit of AP credit towards the Humanities and Arts requirement.

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, TH, MU);				
ii. modern languages (AB, CN, ISE, GN, SP);				
iii. literature and writing rhetoric (EN, WR);				
iv. history, humanities, and international and global studies (HI, HU, INTL);				
v. philosophy and religion (PY, RE).				
Exception: May take all six courses in a modern language.				
5				1/3
Humanities Elective				
6				1/3

WELLNESS AND PHYSICAL EDUCATION (4 WPE 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

FREE ELECTIVES (1 unit)

	Course	Term	Grade	Units
13				1/3
14				1/3
15				1/3

MATHEMATICS AND BASIC SCIENCE (4 units)

MATHEMATICS (7/3 units) Courses with prefix: MA

Must include differential and integral calculus, differential equations, and probability and statistics.

	Course	Term	Grade	Units
16	MA 1020/1021 (Calculus 1)			1/3
17	MA 1120/1022 (Calculus 2)			1/3
18	MA 1023 (Calculus 3)			1/3
19	MA 1024 (Calculus 4)			1/3
20	MA 2051 (Differential Equations)			1/3
21	MA 2611 (Statistics)			1/3
22	MA 2621 (Probability)			1/3

BASIC SCIENCE (4/3 units)

Must include at least 1/3 unit in physics (PH), 2/3 unit in chemistry (CH), and 1/3 unit in an additional science area (BB or GE).

	Course	Term	Grade	Units
23	PH			1/3
24	CH			1/3
25	CH			1/3
26	BB or GE			1/3

ADDITIONAL MATHEMATICS AND BASIC SCIENCE (1/3 units)

Must include 1/3 unit elective from BB, CH, GE, MA, PH, or FY courses that satisfy BB, CH, GE, MA or PH

	Course	Term	Grade	Units
27				1/3

ENGINEERING SCIENCE AND DESIGN (6 units)

FUNDAMENTAL ENGINEERING SCIENCE (6/3 units)

Must include 2/3 units in solid mechanics, 1/3 unit in soil mechanics, 1/3 unit in fluid mechanics, 1/3 unit in structural analysis, and 1/3 unit of additional engineering science courses from the following list: ES 2001, ES 2503, ES 2800, ES 3001, and ES 3002.

	Course	Term	Grade	Units
28	Solid mechanics (CE 2000/ES 2501)			1/3
29	Solid mechanics (CE 2001/ES 2502)			1/3
30	Soil mechanics (CE 3041)			1/3
31	Fluid mechanics (ES 3004)			1/3
32	Structural Analysis (CE 2002)			1/3
33	Engineering science			1/3

CIVIL ENGINEERING – CORE (4/3 units)

Must include 4/3 units in Core Civil Engineering, including Structural Engineering, Project Management, Transportation Engineering, and Environmental Engineering (fulfilled by CE 3010, CE 3020, CE 3050, CE 3059).

	Course	Term	Grade	Units
34	Structural engineering (CE 3010)			1/3
35	Project management (CE 3020)			1/3
36	Transportation engineering (CE 3050)			1/3
37	Environmental engineering (CE 3059)			1/3

CIVIL ENGINEERING – DEPTH (3/3 units)

Must include 3/3 units of civil engineering depth courses at the 3000-level or above, fulfilled by all CE courses not listed in other notes and with at least 2/3 unit from within one sub-discipline of CE (see catalog or page 2 for sub-discipline information).

	Course	Term	Grade	Units
38				1/3
39				1/3
40				1/3

CIVIL ENGINEERING LABORATORY EXPERIENCE (2/3 unit)

Must include 2/3 units of civil engineering laboratory experience; including at most one of CE 3063 or CE 4620 (fulfilled by CE 2020, CE 3026, CE 3063, CE 4620)

	Course	Term	Grade	Units
41				1/3
42				1/3

MAJOR QUALIFYING PROJECT & CAPSTONE DESIGN EXPERIENCE

(3/3 units MQP; 1/3 unit capstone design experience)

	Course	Term	Grade	Units
43				1/3
44				1/3
45				1/3

UNIVERSITY REQUIREMENTS (4 units)			
Humanities and Arts	Interactive Qualifying Project	Social Sciences	Physical Education
2 units	1 unit	2/3 unit	1/3 unit
See WPI Requirements			

FREE ELECTIVES (1 unit)
Free Electives
1 unit
Students are encouraged to consider CE courses or other engineering courses.

MATHEMATICS AND BASIC SCIENCE (4 units)							
Differential & Integral Calculus	Differential Equations	Statistics	Probability	Chemistry	Physics	Additional Science	Math/ Science Elective
4/3 unit	1/3 unit	1/3 unit	1/3 unit	2/3 unit	1/3 unit	1/3 unit	1/3 unit
MA 1020/1021 MA 1022 MA 1023 MA 1024	MA 2051	MA 2611	MA 2621	CH 1010 CH 1020	PH 1110/1111	GE or BB	MA, CH, PH, GE, or BB

ENGINEERING SCIENCE AND DESIGN (6 units)				
Fundamental Engineering Science	Core CE	Labs	MQP	
5/3 unit	4/3 unit	1 unit	1 unit	
CE 2000 (or ES 2501) CE 2001 (or ES 2502) CE 3041 ES 3004 CE 2002	ES 2001 ES 2503 ES 2800 ES 3001 ES 3002	CE 3010 CE 3020 CE 3050 CE 3059	CE 2020 CE 3026 CE 3063 or CE 4620	Including 1/3 unit capstone design

CE Depth		
3/3 unit (at least 2/3 unit from one sub-discipline)		
<u>Structural and Geotechnical Engineering</u> CE 3006 CE 3008 CE 3031 CE 4007 CE 4044	<u>Environmental Engineering and Water Resources</u> CE 3060 CE 3061 CE 3062 CE 3074 CE 4061 CE/CHE 4063 CE 4600 CE 4610	<u>Planning, Development, and Project Management</u> CE 3022 CE 3025 CE 3031 CE 3051 CE 3070 CE 3074 CE 4061 CE 4071



WPI

Office of
Academic
Advising

4-year Plan Template

Name:	Class Year:
Advisor(s):	Major(s)/Minor(s):

Year 1					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 2					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 3					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes:

Year 4					
	A-term	B-term	C-term	D-term	E-term (optional)
Course 1					
Course 2					
Course 3					
Course 4 (optional)					

Notes: