

CIVIL ENGINEERING MAJOR
Program Tracking Sheet
 Effective for students entering AY 2020-2021

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.

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

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

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)

10				1/3
11				1/3
12				1/3

FREE ELECTIVES (1 unit)

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.

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).

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

27				1/3
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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, and 2/3 units of engineering science from the following list: CE 2002, ES 2001, ES 2503, ES 2800, ES 3001, and ES 3002.

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	Engineering science			
33	Engineering science			

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).

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 elsewhere, with at least 2/3 from one sub-discipline – see catalog for more information on course options).

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 (fulfilled by CE 2020, CE 3026, CE 4054, CE 4060).

41				1/3
42				1/3

MAJOR QUALIFYING PROJECT & CAPSTONE DESIGN EXPERIENCE

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

43				1/3
44				1/3
45				1/3