

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 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 |

| 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 |