ENGLISH ENGINEERING MAJOR
Program Tracking Sheet
Effective for students entering AY 2019-2020

<table>
<thead>
<tr>
<th>Name:</th>
<th>Class Year:</th>
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<tr>
<td>Advisor:</td>
<td>2nd Major:</td>
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**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.

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

**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, MI);
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

- 1/3 unit
- 1/3 unit
- 1/3 unit
- 1/3 unit

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

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7 | 1/12 | | 1/3 |
8 | 1/12 | |
9 | 1/12 | |

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

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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

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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, 3/3 unit chemistry CH, 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 | |

**ADVANCED SCIENCE (1 unit) Courses with prefix: BB, CH**
Minimum of 1/3 unit in BB and 1/3 unit in CH.
Advanced BB courses: 2000-level or higher.
Advanced CH courses: CH 1040 and CH courses at the 2000-level or higher.
Courses may not be double-counted toward the basic science requirement

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25 | 1/3 | |
26 | 1/3 | |
27 | 1/3 | |

**ENGINEERING SCIENCE AND DESIGN (6 units) (Note 3)**

**THERMOFLUIDS (2/3 unit)**
Must include 1/3 unit in fluid mechanics (ES 3004 recommended) and 1/3 unit in thermodynamics (ES 3001, CHE 2013, or CH 3510)

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29 | 1/3 | |

**MECHANICS AND MATERIALS (2/3 unit)**
CE 2000 or ES 2501; CE 2001 or ES 2502; ES 2001; ES 2503

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

**CORE ENVIRONMENTAL ENGINEERING (3/3 unit)**
CHE 2011, CE 3059, CE 3062, CHE 3201

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32 | 1/3 | |
33 | 1/3 | |
34 | 1/3 | |

**EVE ELECTIVES: WATER QUALITY AND RESOURCES (3/3 units)**
CE 3060, CE 3061, CE 4060, CE 4061

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35 | 1/3 | |
36 | 1/3 | |
37 | 1/3 | |

**EVE ELECTIVES: AIR & LAND ENVIRONMENTAL SYSTEMS (2/3 units)**
CE 3041, CE 3074, CE 4600, CE/CHE 4063, CHE 4401

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39 | 1/3 | |

**EVE ELECTIVES: ENVIRONMENTAL MANAGEMENT (1/3 unit)**
CE 3020, CE 3070, CE 4071

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40 | 1/3 | |

**MAJOR QUALIFYING PROJECT (3/3 unit)**

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

**FREE ELECTIVES IN ENGINEERING SCIENCE AND DESIGN (2/3 unit)**
Engineering (AE, AREN, BME, CHE, CE, ECE, ES, FPE, ME, RBE) at the 2000-level or above

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

Engineering Science and Design Notes: Curriculum must include:
- 1/3 unit of environmental health issues (CE 3059, CE 3060, CE 3061, or approved experience through IQP, ISP, etc.).
- 2/3 units with laboratory experimentation. Must include either CE 4060 or CHE 4401.
The remaining 1/3 unit may be CE 4060, CHE 4401, laboratory courses in CH (CH 2640 or CH 2650, which would satisfy Advanced Science course requirements), CE 3026, or CE 2020.
- 1/3 unit major design experience through the MQP, or other approved design experience in a course such as CHE 4403 or ME 4429.