

**ELECTRICAL AND COMPUTER ENGINEERING MAJOR**  
**Program Tracking Sheet Based on AY 2017-18 Degree Requirements and Course Offerings**

|          |                        |
|----------|------------------------|
| 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 REQUIREMENT (2 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)**

|   |  |  |  |      |
|---|--|--|--|------|
| 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 REQUIREMENT (4 units)**

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

|    |         |  |  |     |
|----|---------|--|--|-----|
| 16 | MA 1021 |  |  | 1/3 |
| 17 | MA 1022 |  |  | 1/3 |
| 18 | MA 2051 |  |  | 1/3 |
| 19 | MA 2621 |  |  | 1/3 |

|    |  |  |  |     |
|----|--|--|--|-----|
| 20 |  |  |  | 1/3 |
| 21 |  |  |  | 1/3 |
| 22 |  |  |  | 1/3 |

**PHYSICS (2/3 unit) Courses with prefix: PH**

|    |  |  |  |     |
|----|--|--|--|-----|
| 23 |  |  |  | 1/3 |
| 24 |  |  |  | 1/3 |

**CHEMISTRY or BIOLOGY (1/3 unit) Course with prefix: CH or BB**

|    |  |  |  |     |
|----|--|--|--|-----|
| 25 |  |  |  | 1/3 |
|----|--|--|--|-----|

**MATH or BASIC SCIENCE (2/3 unit) Courses with prefix: MA, PH, CH, BB, or GE**

|    |  |  |  |     |
|----|--|--|--|-----|
| 26 |  |  |  | 1/3 |
| 27 |  |  |  | 1/3 |

**ENGINEERING SCIENCE AND DESIGN REQUIREMENT (6 units)**

Must include at least 5 units at the 2000-level or higher within the Electrical and Computer Engineering area (including the MQP). All courses with prefix ECE at the 2000-level or higher and ES 3011 are applicable to these 5 units.

**ELECTRICAL AND COMPUTER ENGINEERING (12/3 units)**

Courses with prefix ECE (except ECE 3601) and ES 3011  
 Must include 1 unit of Electrical Engineering courses: ECE 2112, 2201, 2305, 2312, 3113, 3204, 3308, 3311, 3500, 3501, 3503, 4011, 4023, 4305, 4703, 4902, 4904, and ES 3011  
 Must also include 2/3 unit of Computer Engineering courses: ECE 2029, 2049, 3829, 3849, and 4801.

|    |  |  |  |     |
|----|--|--|--|-----|
| 28 |  |  |  | 1/3 |
| 29 |  |  |  | 1/3 |
| 30 |  |  |  | 1/3 |
| 31 |  |  |  | 1/3 |
| 32 |  |  |  | 1/3 |
| 33 |  |  |  | 1/3 |
| 34 |  |  |  | 1/3 |
| 35 |  |  |  | 1/3 |
| 36 |  |  |  | 1/3 |
| 37 |  |  |  | 1/3 |
| 38 |  |  |  | 1/3 |
| 39 |  |  |  | 1/3 |

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

|    |  |  |  |     |
|----|--|--|--|-----|
| 40 |  |  |  | 1/3 |
| 41 |  |  |  | 1/3 |
| 42 |  |  |  | 1/3 |

**COMPUTER SCIENCE (1/3 unit) Course with prefix: CS**

Must be 2000 level or above, excluding CS 2011, CS 2022, and CS 3043

|    |  |  |  |     |
|----|--|--|--|-----|
| 43 |  |  |  | 1/3 |
|----|--|--|--|-----|

**ADDITIONAL ENGINEERING SCIENCE AND DESIGN (2/3 unit)**

Courses at the 2000 level or above from: AE, AREN, BME, CE, CHE, CS, ECE, ES, FP, ME or RBE, excluding CS 2011, CS 2022, CS 3043 and ECE 3601

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