

# ELECTRICAL AND COMPUTER ENGINEERING MAJOR

## Program Tracking Sheet

Effective for students entering AY 2023-2024

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 (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 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
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**Humanities Elective**

6				1/3
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**WELLNESS AND PHYSICAL EDUCATION (4 WPE 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 (3/3 unit)**

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

**FREE ELECTIVES (3/3 unit)**

13				1/3
14				1/3
15				1/3

**MATHEMATICS AND BASIC SCIENCE (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
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**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 (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 and ES 3011

Must include 1 unit of Electrical Engineering courses: ECE 2112, 2201, 2305, 2312, 3113, 3204, 3308, 3311, 340X, 3500, 3501, 4011, 4023, 4305, 4503, 4703, 490X, 4902, 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)** Either ECE 2039 or any 2000-level (or above) CS course except CS 2011, CS 2022, and CS 3043

43				1/3
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**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 and CS 3043

44				1/3
45				1/3