

ELECTRICAL AND COMPUTER ENGINEERING MAJOR
Program Tracking Sheet: Effective for students entering AY 2024–2025

Name:	Class Year:	2 nd Major:
Academic Advisor:		Faculty Advisor:

NOTES: Minimum total credit = 15 units; Min. 8 units completed at WPI

HUMANITIES AND ARTS (6/3 units) Must complete all 5 HUA courses before beginning 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

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

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 (Calculus I)			1/3
17	MA 1022 (Calculus II)			1/3
18	MA 2051 (Ord. Differential Equations)			1/3
19	MA 2621 (Probability)			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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Additional 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, including MQP)

ELECTRICAL ENGINEERING (3/3 unit) Must include 1 unit of Electrical Engineering courses: ECE 2112, 2201, 2305, 2312, 3012, 3113, 3204, 3308, 3311, 3405, 3500, 3501, 4011, 4023, 4305, 4503, 4703, 4901, 4902, 4904, and ES 3011

28				1/3
29				1/3
30				1/3

DIGITAL CIRCUIT DESIGN (1/3 unit) Must include 1/3 unit of Computer Engineering courses with topics in digital circuit design: ECE 2029, 3829

31				1/3
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EMBEDDED COMPUTING (1/3 unit) Must include 1/3 unit of Computer Engineering courses with topics in embedded computing: ECE 2049, 3849, 4801

32				1/3
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Additional ELECTRICAL AND COMPUTER ENGINEERING (7/3 units) Courses with prefix ECE at the 2000-level or higher and ES 3011

33				1/3
34				1/3
35				1/3
36				1/3
37				1/3
38				1/3
39				1/3

COMPUTATIONAL ENGINEERING (1/3 unit) ECE 2039 (preferably) or any 2000-level (or above) CS course except CS 2011, CS 2022, and CS 3043

40				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

41				1/3
42				1/3

MAJOR QUALIFYING PROJECT (3/3 unit)

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