

INDUSTRIAL ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering AY 2025 (2024-2025)

Name:	Class Year: 2028	Date tracking sheet completed:
Student ID #:	Advisor:	2 nd Major/Minor:

NOTES: Minimum academic credit = 15 units
Residency Req.: Min. of 8 units must be completed at WPI.

HUMANITIES AND ARTS REQUIREMENT (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 must be at the 2000-level or above.			
Course	Term	Grade	Units
1.			1/3
2.			1/3
3.			1/3
4. HU 3900/3910 (taken last)			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, 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			1/12
7.2			1/12
7.3			1/12
7.4			1/12

MATHEMATICS AND BASIC SCIENCE (12/3 units)

Calculus Sequence

8. MA 1021			1/3
9. MA 1022			1/3
10. MA 1023			1/3
11. MA 1024			1/3
12. MA 2051			1/3

Statistics Sequence

13. MA 2611			1/3
14. MA 2612 or 2621			1/3

Physics/Chemistry Sequence

15. CH			1/3
16. PH			1/3
17. CH or PH			1/3

Math/Science Electives (one of each is recommended)

Recommended in Math: MA 2071, probability & stats., numerical analysis
Science: BB, CH, GE, PH

18.			1/3
19.			1/3

SOCIAL SCIENCES (2/3 units)

Two from: DEV, ECON, ENV, GOV, ID 2050/SS 2050, PSY, SD, SOC, SS, STS

20. ID 2050/SS 2050	AY '27		1/3
21.			1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 units)

22.	AY '27		1/3
23.	AY '27		1/3
24.	AY '27		1/3

INDUSTRIAL ENGINEERING CORE (9/3 units)

25. OIE 2081			1/3
26. OIE 2600 or CS2119 or 2102/2103**			1/3
27. OIE 2850			1/3
28. OIE 3020			
29. OIE 3405 or OIE 4430			
30. OIE 3410			1/3
31. OIE 3420			1/3
32. OIE 3460			1/3
33. OIE 3510			1/3

**Take CS 1004 prior to CS 2119. Take CS 1101/1102 prior to CS 2102/2103.

INDUSTRIAL ENGINEERING ELECTIVES-Operations Research (3/3 units)

Choose three: OIE 2600*, 3405*, 4410, 4430*, 4460; MIS 3720, 3787, 4084, 4720, 4741; MA 3231, 3233, 3627, 3631, 4235, 4237, 4631, 4632.

*Only if not taken in IE Core.

34.			1/3
35.			1/3
36.			1/3

TECHNICAL ELECTIVES (3/3 units)

Any designated CE (except CE 3022), CHE, CS (except CS 1004, 1101, 1102, 3043), ECE, ES (except ES 1000, 3323), ME, OIE, RBE, as well as any IE Elective (see above). Suggested courses include:
CS 2011, CS 4032/MA 3257, ECE 2010, ES 1310, ES 2001, ES 2800, ES 3001, ME 1800, ME 2820. GPS course credits do not qualify.

37. One ES course required			1/3
38.			1/3
39.			1/3

MAJOR QUALIFYING PROJECT (3/3 units)

40.	A '27		1/3
41.	B '27		1/3
42.	C '28		1/3

Note: MQP must have an Industrial Engineering focus and advisor.

FREE ELECTIVES (3/3 units)

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

NOTES