

INDUSTRIAL ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering AY 2024 (2023-2024)

Name:	Class Year: 2027	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 take 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)			
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)

Course	Term	Grade	Units
7.1			1/12
7.2			1/12
7.3			1/12
7.4			1/12

MATHEMATICS & BASIC SCIENCE (12/3 units)

Calculus Sequence

Course	Term	Grade	Units
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

Course	Term	Grade	Units
13. MA 2611			1/3
14. MA 2612 or 2621			1/3

Physics/Chemistry Sequence

Course	Term	Grade	Units
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

Course	Term	Grade	Units
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

Course	Term	Grade	Units
20. ID 2050/SS 2050	AY '26		1/3
21.			1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 units)

Course	Term	Grade	Units
22.	AY '26		1/3
23.	AY '26		1/3
24.	AY '26		1/3

INDUSTRIAL ENGINEERING CORE (9/3 units)

Course	Term	Grade	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, 4084, 4720, 4741; MA 3231, 3233, 3627, 3631, 4235, 4237, 4631, 4632.

*Only if not taken in IE Core.

Course	Term	Grade	Units
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.

Course	Term	Grade	Units
37. One ES course required			1/3
38.			1/3
39.			1/3

MAJOR QUALIFYING PROJECT (3/3 units)

Course	Term	Grade	Units
40.	A '26		1/3
41.	B '26		1/3
42.	C '27		1/3

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

FREE ELECTIVES (3/3 units)

Course	Term	Grade	Units
43.			1/3
44.			1/3
45.			1/3

NOTES