

INDUSTRIAL ENGINEERING MAJOR

Program Tracking Sheet

Effective for students entering AY 2019-20

Name:	Class Year: 2023	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.
 No course should appear more than once on this sheet, with the exception of PE courses.

HUMANITIES AND ARTS REQUIREMENT (6/3 units)

--Breadth Component Students must take at least one course outside the grouping in which the depth component falls: a. Art/art history, drama/theatre, music (AR, EN/TH, MU) b. Foreign languages (AB, CN, EN, GN, SP) c. Literature, writing, rhetoric (EN, WR, RH) d. History, international studies (HI, HU, INTL) e. Philosophy, religion (PY, RE)			
Course	Term	Grade	Units
1.			1/3
2.			1/3
--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. Exception: May take all six courses in German or Spanish.			
3.			1/3
4.			1/3
5.			1/3
6. HU 3900/3910 (taken last)			1/3

PHYSICAL EDUCATION (4 PE 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, PSY, SD, SOC, SS, STS and ID 2050

Course	Term	Grade	Units
20.			1/3
21.			1/3

THE INTERACTIVE QUALIFYING PROJECT (3/3 units)

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

INDUSTRIAL ENGINEERING CORE (9/3 units)

Course	Term	Grade	Units
25. OIE 3405 or OIE 4420			1/3
26. OIE 2081 or BUS 2080 or MA 2210*			1/3
27. BUS 3020			1/3
28. OIE3600 or CS2119 or 2102/2103**			1/3
29. OIE 2850			1/3
30. OIE 3410			1/3
31. OIE 3420			1/3
32. OIE 3460			1/3
33. OIE 3510			1/3

*IE majors cannot receive credit for both OIE 2081 and MA 2210.

*IE majors cannot receive credit for both BUS 2080 and MA 2210.

**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 3405*, 3600*, 4410, 4420*, 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 (except OIE 2081), 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

THE MAJOR QUALIFYING PROJECT (3/3 units)

Course	Term	Grade	Units
40.	A '22		1/3
41.	B '22		1/3
42.	C '23		1/3

FREE ELECTIVES (3/3 units)

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

NOTES