

# INDUSTRIAL ENGINEERING MAJOR

## Program Tracking Sheet

Effective for students entering AY 2021 (2020-2021)

Name:	Class Year: 2024	Date tracking sheet completed:
Student ID #:	Advisor:	2 <sup>nd</sup> 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)

7.1			1/12
7.2			1/12
7.3			1/12
7.4			1/12

### MATHEMATICS & 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, PSY, SD, SOC, SS, STS and ID 2050

20.			1/3
21.			1/3

### THE INTERACTIVE QUALIFYING PROJECT (3/3 units)

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

### INDUSTRIAL ENGINEERING CORE (9/3 units)

25. OIE 3405 or OIE 4420			1/3
26. OIE 2081			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

\*\*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.

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

### THE MAJOR QUALIFYING PROJECT (3/3 units)

40.	A '23		1/3
41.	B '23		1/3
42.	C '24		1/3

### FREE ELECTIVES (3/3 units)

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

### NOTES