

# INDUSTRIAL ENGINEERING MAJOR

## Program Tracking Sheet

Effective for students entering AY 2015-16

Name:	Class Year:	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 Select <b>at least 1 course</b> outside the group in which your depth falls: a. Art/art history, drama/theatre, music (AR, EN/TH, MU) b. Foreign languages (SP, GN, AB, CN) c. Literature, writing, rhetoric (EN, WR, RH) d. History, international studies (HI, HU) e. Philosophy, religion (PY, RE)			
Course	Term	Grade	Units
1.			1/3
2.			1/3
--Depth Component Select <b>at least 3 courses</b> + Inquiry Seminar or Practicum from the same thematic area: a. Music (MU)                                      d. Literature/Writing/Rhetoric (EN/WR/RH) b. Art/Art History (AR)                              e. History/International Studies (HI/HU) c. Drama/Theatre (EN/TH)                              f. Philosophy/Religion (PY/RE) At least one must be at 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: 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.			1/3
23.			1/3
24.			1/3

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

25. BUS 1010 or OIE 3405 or OIE 4420			1/3
26. BUS 2080 or MA 2210*			1/3
27. BUS 3020			1/3
28. OIE 3600 or CS 2119 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 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, 470X, 4720; MA 3231, 3233, 3627, 3631, 4235, 4237, 4631, 4632.

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

\*Only if not taken in IE Core.

### TECHNICAL ELECTIVES (3/3 units)

Any Engineering Science/Design course qualifies, as well as any IE Elective (see above). Any designated CE (*except* CE 3022), CHE, CS (*except* CS 1004, 1101, 1102, 3043), ECE, ES, ME, OIE, and RBE. Suggested courses include: CS 2011, CS 4032/MA 3257, ECE 2010, ECE 3601, ES 1310, ES 2001, ES 2800, ES 3001, ME 1800, ME 2820.

37.			1/3
38.			1/3
39.			1/3

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

40.			1/3
41.			1/3
42.			1/3

### FREE ELECTIVES (3/3 units)

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

## NOTES