

INDUSTRIAL ENGINEERING MAJOR
Program Tracking Sheet
 Effective for students matriculating after August 1, 2007

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|---------------|-------------|---------------------------|
| Name: | Class Year: | Expected Graduation Date: |
| Student ID #: | Advisor: | 2 nd Major: |

NOTES: Minimum academic credit = 15 units
 Residency Req.: Min. of 8 units must be completed at WPI.
 Courses may not count in more than one area (IE Core, IE Electives, Technical Electives).

HUMANITIES AND ARTS REQUIREMENT (6/3 units)
 (previously referred to as the "Sufficiency")

| --Breadth Component | | | |
|---|------|-------|-------|
| Select at least 1 course from at least 2 of the 3 intellectual clusters: | | | |
| 1. art/art history, music, drama/theatre (AR, MU, TH) | | | |
| 2. languages, literature & writing/rhetoric (EN, WR, RH, SP, GN) | | | |
| 3. history, philosophy, religion (HI, HU, PY, RE) | | | |
| Exception: May take all six courses in a foreign language | | | |
| Course | Term | Grade | Units |
| 1. | | | 1/3 |
| 2. | | | 1/3 |
| 3. | | | 1/3 |
| --Depth Component | | | |
| At least 1 of the 2 thematically-related courses must be at 2000-level or above. The 3rd course is an Inquiry Seminar or Inquiry Practicum. | | | |
| 4. | | | 1/3 |
| 5. | | | 1/3 |
| 6. | | | 1/3 |

PHYSICAL EDUCATION (4 PE classes = 1/3 credit)

| | | | |
|-----|--|--|------|
| 7.1 | | | 1/12 |
| 7.2 | | | 1/12 |
| 7.3 | | | 1/12 |
| 7.4 | | | 1/12 |

SOCIAL SCIENCES (2/3 units)

Two from: ECON, GOV, PSY, SD, SOC, SS, STS

| | | | |
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| 8. | | | 1/3 |
| 9. | | | 1/3 |

THE INTERACTIVE QUALIFYING PROJECT (3/3 units)

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|-----|--|--|-----|
| 10. | | | 1/3 |
| 11. | | | 1/3 |
| 12. | | | 1/3 |

NOTES

MATHEMATICS & BASIC SCIENCE (12/3 units)

Calculus Sequence

| | | | |
|-------------|--|--|-----|
| 13. MA 1021 | | | 1/3 |
| 14. MA 1022 | | | 1/3 |
| 15. MA 1023 | | | 1/3 |
| 16. MA 1024 | | | 1/3 |
| 17. MA 2051 | | | 1/3 |

Statistics Sequence

| | | | |
|---------------------|--|--|-----|
| 18. MA 2611 | | | 1/3 |
| 19. MA 2612 or 2621 | | | 1/3 |

Physics/Chemistry Sequence

| | | | |
|------------------------|--|--|-----|
| 20. CH 1010 | | | 1/3 |
| 21. PH 1110 | | | 1/3 |
| 22. CH 1020 or PH 1120 | | | 1/3 |

Math/Science Electives

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

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| 23. | | | 1/3 |
| 24. | | | 1/3 |

INDUSTRIAL ENGINEERING CORE (9/3 units)

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|--|--|--|-----|
| 25. OR Methods: OIE 2500 | | | 1/3 |
| 26. Process Design: OIE 3400 | | | 1/3 |
| 27. Planning & Control: OIE 3401 | | | 1/3 |
| 28. Simulation: OIE 3460 | | | 1/3 |
| 29. Stochastic Methods: OIE 3420 or 3501 | | | 1/3 |
| 30. IS Design: CS 2118 | | | 1/3 |
| 31. Financial Modeling: OIE 2850 | | | 1/3 |
| 32. Organizational Science: OBC 2300 | | | 1/3 |
| 33. One Engineering course outside IE* | | | 1/3 |

*Suggested courses include: ES 1310, ME 1800, ES 2001, ME 2820, ECE 2011, ECE 3601, CS 2011, CS 4032/3257.

INDUSTRIAL ENGINEERING ELECTIVES (3/3 units)

Select from: OIE 3405, 3420, 3450, 3501, 4410, 4460, MIS 3720, 4720, and Operations Research (OR) courses in MA.

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

TECHNICAL ELECTIVE (3/3 units)

IE electives and any other Engineering Science/Design courses qualify.

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

THE MAJOR QUALIFYING PROJECT (3/3 units)

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|-----|--|--|-----|
| 40. | | | 1/3 |
| 41. | | | 1/3 |
| 42. | | | 1/3 |

FREE ELECTIVES (3/3 units)

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