

ACTUARIAL MATHEMATICS MAJOR

Program Tracking Sheet

Effective for students entering AY 2021-2022

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|----------|------------------------|
| Name: | Class Year: |
| Advisor: | 2 nd Major: |

NOTES: Minimum total academic credit = 15 units
Residency Req.: At least 8 units must be completed at WPI

HUMANITIES AND ARTS (6/3 unit)

All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum. Only 1 AP credit can be applied to the HUA requirement.

| 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 of the three courses should be at the 2000-level or above. | | | | |
| | Course | Term | Grade | Units |
| 1 | | | | 1/3 |
| 2 | | | | 1/3 |
| 3 | | | | 1/3 |
| 4 | HU 3900 or HU 3910 | | | 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, and 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); | | | | |
| v. Philosophy and religion (PY, RE). | | | | |
| Exception: May take all six courses in a foreign language | | | | |
| 5 | | | | 1/3 |
| Humanities Elective | | | | |
| 6 | | | | 1/3 |

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

| | | | | |
|---|--|--|--|------|
| 7 | | | | 1/12 |
| | | | | 1/12 |
| | | | | 1/12 |
| | | | | 1/12 |

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS, DEV and ID2050. ECON 1110 and ECON 1120 are recommended.

| | | | | |
|---|--|--|--|-----|
| 8 | | | | 1/3 |
| 9 | | | | 1/3 |

THE INTERACTIVE QUALIFYING PROJECT (3/3 unit)

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

FREE ELECTIVES (3/3 unit)

| | | | | |
|----|--|--|--|-----|
| 13 | | | | 1/3 |
| 14 | | | | 1/3 |
| 15 | | | | 1/3 |

MATHEMATICS (7 units)

May include independent studies directed towards Society of Actuaries exams only if the material was not previously covered in a WPI course. May not include both MA 2631 and MA 2621.

TRANSITION COURSES (1 unit)

Must include at least three of the following: MA 1033 or MA 1971 (one only), MA 2073, MA 2211, MA 2251, MA 2271*, MA 2273*, MA 2431, MA 2631, or their equivalents (MA 2621 cannot be counted as a transition course)

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|----|--|--|--|-----|
| 16 | | | | 1/3 |
|----|--|--|--|-----|

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|----|--|--|--|-----|
| 17 | | | | 1/3 |
| 18 | | | | |

CORE COURSES (4/3 units)

| | | | | |
|----|--------------------|--|--|-----|
| 19 | MA 3831 | | | 1/3 |
| 20 | MA 3832 | | | 1/3 |
| 21 | MA 3257 or MA 3457 | | | 1/3 |
| 22 | MA 3631 | | | 1/3 |

ACTUARIAL COURSES (4/3 unit)

Must include four of the following: MA 2212, MA 3213, MA 3212, MA 4213, MA 4214, MA 4892 or their equivalents

| | Course | Term | Grade | Units |
|----|--------|------|-------|-------|
| 23 | | | | 1/3 |
| 24 | | | | 1/3 |
| 25 | | | | 1/3 |
| 26 | | | | 1/3 |

INTRODUCTORY AND OTHER MATH COURSES (8/3 units)

| | | | | |
|----|--|--|--|-----|
| 27 | | | | 1/3 |
| 28 | | | | 1/3 |
| 29 | | | | 1/3 |
| 30 | | | | 1/3 |
| 31 | | | | 1/3 |
| 32 | | | | 1/3 |
| 33 | | | | 1/3 |
| 34 | | | | 1/3 |

MAJOR QUALIFYING PROJECT (3/3 unit)

| | | | | |
|----|--|--|--|-----|
| 35 | | | | 1/3 |
| 36 | | | | 1/3 |
| 37 | | | | 1/3 |

BASIC SCIENCE (2/3 units)

Courses with the prefix: BB, CH, ES, GE, or PH

| | | | | |
|----|--|--|--|-----|
| 38 | | | | 1/3 |
| 39 | | | | 1/3 |

COMPUTER SCIENCE (2/3 unit)

| | | | | |
|----|--|--|--|-----|
| 40 | | | | 1/3 |
| 41 | | | | 1/3 |

BUSINESS (4/3 unit)

Business courses must be chosen from courses with any of the following prefixes: ACC, BUS, or FIN. BUS 2060, BUS 2070, and FIN 3300 are recommended.

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|----|--|--|--|-----|
| 42 | | | | 1/3 |
| 43 | | | | 1/3 |
| 44 | | | | 1/3 |
| 45 | | | | 1/3 |

ACTUARIAL SEMINAR (0 units)

The actuarial seminar is a graduation requirement. Students must complete this seminar in at least four terms while at WPI. Please consult with the actuarial faculty for more details about this requirement.

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|--|---------|--|--|-----|
| | MA 4216 | | | 0/3 |
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Students interested in pursuing a degree in Actuarial Mathematics should contact Professor Abraham, the Coordinator of the Actuarial Mathematics Program, as soon as possible.

*Category II classes. Only offered every other year.