

**ACTUARIAL MATHEMATICS MAJOR**  
**Program Tracking Sheet Based on AY 2017-18 Degree Requirements and Course Offerings**

|          |                        |
|----------|------------------------|
| Name:    | Class Year:            |
| Advisor: | 2 <sup>nd</sup> Major: |

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

**HUMANITIES AND ARTS REQUIREMENT (2 units)**

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

| <b>Depth Component</b>                                                                                                                                                                                                      |                    |      |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|-------|-------|
| 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   |
| <b>Breadth Component</b>                                                                                                                                                                                                    |                    |      |       |       |
| 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   |
| <b>Humanities Elective</b>                                                                                                                                                                                                  |                    |      |       |       |
| 6                                                                                                                                                                                                                           |                    |      |       | 1/3   |

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

|   | Course | Term | Grade | Units |
|---|--------|------|-------|-------|
| 7 |        |      |       | 1/12  |
|   |        |      |       | 1/12  |
|   |        |      |       | 1/12  |
|   |        |      |       | 1/12  |

**SOCIAL SCIENCE (2/3 unit)** ECON, ENV, GOV, PSY, SD, SOC, SS, STS and ID2050

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

**THE INTERACTIVE QUALIFYING PROJECT (1 unit)**

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

**FREE ELECTIVES (1 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 (2/3 unit)**

Must include two of the following: MA 2073, 2271, 2273, 2431, 2631, or their equivalents

|    |  |  |  |     |
|----|--|--|--|-----|
| 16 |  |  |  | 1/3 |
| 17 |  |  |  | 1/3 |

**CORE COURSES (4/3 units)**

|    |                    |  |  |     |
|----|--------------------|--|--|-----|
| 18 | MA 3831            |  |  | 1/3 |
| 19 | MA 3832            |  |  | 1/3 |
| 20 | MA 3257 or MA 3457 |  |  | 1/3 |
| 21 | MA 3631            |  |  | 1/3 |

**ACTUARIAL COURSES (3/3 unit)**

Must include four of the following: MA 2212, MA 3213, MA 3212, MA 4213, MA 4214, MA 4829 or their equivalents

|    | Course | Term | Grade | Units |
|----|--------|------|-------|-------|
| 22 |        |      |       | 1/3   |
| 23 |        |      |       | 1/3   |
| 24 |        |      |       | 1/3   |

**INTRODUCTORY AND OTHER MATH COURSES (9/3 units)**

|    |  |  |  |     |
|----|--|--|--|-----|
| 25 |  |  |  | 1/3 |
| 26 |  |  |  | 1/3 |
| 27 |  |  |  | 1/3 |
| 28 |  |  |  | 1/3 |
| 29 |  |  |  | 1/3 |
| 30 |  |  |  | 1/3 |
| 31 |  |  |  | 1/3 |
| 32 |  |  |  | 1/3 |
| 33 |  |  |  | 1/3 |

**MAJOR QUALIFYING PROJECT (3/3 unit)**

|    |  |  |  |     |
|----|--|--|--|-----|
| 34 |  |  |  | 1/3 |
| 35 |  |  |  | 1/3 |
| 36 |  |  |  | 1/3 |

**BASIC SCIENCE (2/3 units)**

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

|    |  |  |  |     |
|----|--|--|--|-----|
| 37 |  |  |  | 1/3 |
| 38 |  |  |  | 1/3 |

**COMPUTER SCIENCE (2/3 unit)**

|    |  |  |  |     |
|----|--|--|--|-----|
| 39 |  |  |  | 1/3 |
| 40 |  |  |  | 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 2260 are recommended.

|    |  |  |  |     |
|----|--|--|--|-----|
| 41 |  |  |  | 1/3 |
| 42 |  |  |  | 1/3 |
| 43 |  |  |  | 1/3 |
| 44 |  |  |  | 1/3 |

**ADDITIONAL COURSES OR INDEPENDENT STUDIES (1/3 units)**

Additional courses or independent studies (except AS, MS, PE courses, and other degree requirements) from any area.

|    |  |  |  |     |
|----|--|--|--|-----|
| 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.

|  |  |  |  |     |
|--|--|--|--|-----|
|  |  |  |  | 0/3 |
|  |  |  |  | 0/3 |
|  |  |  |  | 0/3 |
|  |  |  |  | 0/3 |

Students interested in pursuing a degree in Actuarial Mathematics should contact Professor Abraham, the Coordinator of the Actuarial Mathematics Program, as soon as possible.