

# ACTUARIAL MATHEMATICS MAJOR

## Program Tracking Sheet Based on AY 2016-17 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.

#### **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
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#### **Humanities Elective**

6				1/3
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### **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 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 or MA 4632			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
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### **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.