# **ACTUARIAL MATHEMATICS MAJOR**

# **Program Tracking Sheet**

Effective for students entering AY 2021-2022

Nai					
	me:				Class \
Adv	visor:				2 <sup>nd</sup> Maj
NOT	ES: Minimum total academic credit = 15	units			17
	Residency Req.: At least 8 units mu	ıst be comple	ted at WPI		18
					CORE
	ANITIES AND ARTS (6/3 unit)				19
	HUA courses must be completed before I				20
	acticum. Only 1 AP credit can be applied pth Component	to the nua i	equirement		21
	dents must complete at least three thema	itically_related	l coureae n	rior to	22
	culminating Inquiry Seminar or Practicum				ACTU
	st one of the three courses should be at the			ca. / tt	Must i
100	Course	Term	Grade	Units	MA 42
1	334133	101111	Olado	1/3	22
2		1		1/3	23 24
3				1/3	25
4	HU 3900 or HU 3910			1/3	26
Bre	eadth Component	•			INTRO
	dents must take at least one course outsi				27
	nplete their depth component. To identify	breadth, cour	ses are gro	ouped in	28
	following manner.				29
	i. Art/art history, drama/theatre, and music (AR, EN/TH, MU);				
ii. Foreign languages (AB, CN, EN GN, SP);					30
	Foreign languages (AB, CN, EN GN, SP);		vio),		30 31
iii. I	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R	H);	ио),		
iii. l iv. l	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU,	H);	vio),		31
iii. l iv. l v. l	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE).	H); INTL);	иσ,		31 32
iii. l iv. l v. l Exc	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU,	H); INTL);	, 	1/3	31 32 33 34
iii. l iv. l v. l Exc	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). ception: May take all six courses in a forei	H); INTL);	J	1/3	31 32 33 34
iii. l iv. l v. l Exc	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE).	H); INTL);	,, 	1/3	31 32 33 34 <b>MAJC</b> 35 36
iii. l iv. l v. l Exc 5 <b>Hu</b> 6	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). ception: May take all six courses in a forei	H); INTL); gn language	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		31 32 33 34 <b>MAJC</b> 35 36 37
iii. l iv. l v. l Exc 5 <b>Hu</b> 6	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). ception: May take all six courses in a forei manities Elective	H); INTL); gn language			31 32 33 34 <b>MAJC</b> 35 36 37 <b>BASI</b>
iii. I iv. I v. I Exc 5 Hu 6	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). ception: May take all six courses in a forei manities Elective	H); INTL); gn language		1/3	31 32 33 34 <b>MAJC</b> 35 36 37 <b>BASI</b> (Cours
iii. l iv. l v. l Exc 5 <b>Hu</b> 6	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). ception: May take all six courses in a forei manities Elective	H); INTL); gn language		1/3	31 32 33 34 <b>MAJC</b> 35 36 37 <b>BASI</b> ( Cours
iii. I iv. I v. I Exc 5 Hui 6 PHY:	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a forei  manities Elective  SICAL EDUCATION (4 PE classes = 1/3	H); INTL); gn language		1/3 1/12 1/12 1/12 1/12	31 32 33 34 <b>MAJC</b> 35 36 37 <b>BASIC</b> Cours 38 39
iii. I iv. I v. I Exc 5 Hu 6 PHYS	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a forei  manities Elective  SICAL EDUCATION (4 PE classes = 1/3  LAL SCIENCE (2/3 unit) ECON, ENV, GO	H); INTL); gn language unit) unit) V, PSY, SD,	SOC, SS, S	1/3 1/12 1/12 1/12 1/12	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39
iii. I iv. I v. I Exc 5 Hu 6 PHY:	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a forei  manities Elective  SICAL EDUCATION (4 PE classes = 1/3	H); INTL); gn language unit) unit) V, PSY, SD,	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 STS	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMI
iii. I iv. I v. I Exc 5 Hu 6 PHYS  SOC and I 8	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a forei  manities Elective  SICAL EDUCATION (4 PE classes = 1/3  LAL SCIENCE (2/3 unit) ECON, ENV, GO	H); INTL); gn language unit) unit) V, PSY, SD,	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/13	31 32 33 34 <b>MAJC</b> 35 36 37 <b>BASIC</b> Cours 38 39 <b>COMF</b> 40 41
iii. l iv. l v. l Exc 5  Hull 6  PHYS  7  SOC and 1  8  9	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 STS	31 32 33 34 <b>MAJC</b> 35 36 37 <b>BASIC</b> Cours 38 39 <b>COMF</b> 40 41 <b>BUSII</b>
iii. l iv. l iv. l Exc 5 Hu 6 PHY3 7  SOCC and l 8 9 THE	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a forei  manities Elective  SICAL EDUCATION (4 PE classes = 1/3  LAL SCIENCE (2/3 unit) ECON, ENV, GO	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 5TS 1/3 1/3	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSII Busine
iii. l iv. l   v. l   Exc   5   Hull   6   PHY:   7   SOC   and     8   9   THE   10	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/13 1/3	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSIN prefixe
iii. l iv. l iv. l iv. l   Exc   5   Hui   6   PHY3   7   SOCC   and l   8   9   THE   10   11	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/13 1/3 1/3	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSIN prefixe recom
iii. l iv. l iv. l iv. l   Exc     5	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/13 1/3	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSIN prefixe recom 42
iii. l iv. l   v. l   Exc     5	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/12 1	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSIN prefixerecom 42 43
iii. l iv. l   v. l   Exc     5	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/12 1	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSIN Busine prefixe recom
iii. l iv. l   v. l   Exc     5	Foreign languages (AB, CN, EN GN, SP); Literature and writing rhetoric (EN, WR, R History and international studies (HI, HU, Philosophy and religion (PY, RE). Leption: May take all six courses in a foreign and the state of the	H); INTL); gn language unit)  V, PSY, SD, recommende	SOC, SS, S	1/3 1/12 1/12 1/12 1/12 1/12 1/12 1/12 1	31 32 33 34 MAJC 35 36 37 BASIC Cours 38 39 COMF 40 41 BUSIN Busine prefixe recom 42 43 44

### MATHEMATICS (22/3 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)

16			1/3

17		1/3
18		1/3
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

INTRODUCTORT AND OTHE	IN MIATH COUNCILO (0/3 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

39			1/3
COM	PUTER SCIENCE (2/3 unit)		
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 3300 are recommended.

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	
	MA 4216		0/3	
	MA 4216		0/3	
	MA 4216		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.

<sup>\*</sup>Category II classes. Only offered every other year.