

Actuarial Science Joint Honours Plan

2014-2015 Calendar

	Course	Year/ Term	Topic	Pre-reqs	Offering	Comments
1	CS 115 or CS 135 or CS 145	1A	CS Core I		FWS	
2	MATH 135/145	1A	Algebra		FWS	
3	MATH 137/147	1A	Calculus I		FWS	
4	Math English course **	1A	English Language Proficiency course (list on undergrad calendar)		FWS	If you pass ELPE instead, replace this with any non-math course
5	MTHEL 131	1A/B	Intro to Actuarial Practice		FWS	Required for admission
6	CS 116 or CS 136 or CS 146	1B	CS Core II	CS Core I	FWS	
7	MATH 136/146	1B	Linear Algebra 1	M135	FWS	
8	MATH 138/148	1B	Calculus II	M137	FWS	
9	AFM 101	1	Core Concepts of accounting information		FWS	
10	MATH 235/245	2A	Linear Algebra 2	M136	FWS	
11	MATH 237/347	2A	Calculus 3	M136,138	FWS	
12	STAT 230/240	2A	Probability	M137	FWS	
13	STAT 231/241	2B	Statistics	M138,S230	FWS	
14	ACTSC 231	2A	Mathematics of Finance	M137, level 2A	FWS	
15	ACTSC 232	2B	Introduction to Actuarial Mathematics	AS231,S230, ENGL 119 or Good/Excellent on ELPE (see note below **)	FWS	
16	ACTSC 331	3	Life Contingencies 1	≥60% in AS232	FWS	
17	STAT 330	3	Stat theory and methods	M237, ≥60% in S230,S231	FWS	
18	STAT 333	3	Applied probability	≥60% in S230, level 3A	FWS	
19	ACTSC 431	4	Loss models 1	S330,S333	FS	
20	ACTSC 432	4	Loss models 2	S330,S333	FS	
+	3 Additional courses from					
	Any 300-400 level ACTSC	3/4			varies	
	AFM 472/AFM 424	3/4	Investments	AS372	FW	
	STAT 331	3	Applied linear models	M235, ≥60% in S231	FWS	
	STAT 340	3/4	Simulation	S231, CS Core II	WS	
	STAT 433 or STAT 431	4	Stochastic processes or Generalized linear models	S333 S330,(S331 or S371)	F FWS	
	STAT 443	3/4	Forecasting	S331	FWS	
+	6 Additional Math courses, since students doing a Joint Actuarial Science must complete 26 math courses.					
+	7 non-math courses, since students doing any math degree must complete 10 non-math courses					
+	whatever you need for your other major (a joint major cannot be completed alone), minimum 4 more courses for a total of 40					

** ENGL 119 is listed as required in the 2014 calendar, however, it will only count as a pre-req for ACTSC 232 if taken in Winter 2015 or earlier. Students are recommended to check the department website for the alternative pre-req currently being developed for 2015, which will most likely be a mark of >60% in MTHEL 131. We will also accept a mark of >75% in the English Language Proficiency Course, for Fall 2014 incoming students only.