

Actuarial Science Joint Honours Plan 2015-2016 Calendar

	Course	Year/ Term	Topic	Pre-reqs	Offerin g	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	MTHEL 131	1A/B	Intro to Actuarial Practice		FWS	Required for admission
5	CS 116 or CS 136 or CS 146	1B	CS Core II	CS Core I	FWS	
6	MATH 136/146	1B	Linear Algebra 1	M135	FWS	
7	MATH 138/148	1B	Calculus II	M137	FWS	
8	AFM 101	1	Core Concepts of accounting information		FWS	
9	MATH 235/245	2A	Linear Algebra 2	M136	FWS	
10	MATH 237/247	2A	Calculus 3	M136,138	FWS	
11	STAT 230/240	2A	Probability	M137	FWS	
12	STAT 231/241	2B	Statistics	M138,S230	FWS	
13	ACTSC 231	2A	Financial Mathematics	M137, level 2A, Coreq S230	FWS	
14	ACTSC 232	2B	Life Contingencies 1	>60% in A232, >60% in MTHEL 131*, S.230	FWS	
15	ACTSC 331	3	Life Contingencies 2	≥60% in AS232	FWS	
16	ACTSC 431	4	Loss models 1	S330,S333	FS	
17	ACTSC 432	4	Loss models 2	S330,S333	FS	
18	STAT 330	3	methods	M237, ≥60% in S230,S231	FWS	
19	STAT 333	3	Applied probability	≥60% in S230, level 3A	FWS	
+	from					
	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	4	processes Generalized linear models	S333	F	
	STAT 431			S330,(S331 or S371)	FWS	
	STAT 443	3/4	Forecasting	S331	FWS	
+	3 Additional Math courses					

* For ACTSC 232, students who started at Waterloo in Fall 2014 and earned >75% in their first attempt at the first communication course, may use that in place of >60% in MTHEL 131 for ACTSC 232. Students who started in Fall 2013 or before, and have an ELPE mark of Good or Excellent may use that in place of >60% in MTHEL 131.

May-16

Students doing a Joint Actuarial Science must complete 26 math courses.