## **Actuarial Science--Finance Option Honours Plan**

2017-18 and 2018-19 Calendar

<u> </u>	17-10 and 2010-19	1						
	Course	Year/ Term	Topic	Pre-reqs	Offering	SOA exams	CAS exams	Comments
	CS 115 or CS 135 or		Торіс	Pre-reqs	Offering	SOA exams	CAS exams	* a few other options - see first year
1	CS 145 *	1A	CS Core I		FWS			advisor if you have issues
2	MATH 135/145	1A	Algebra		FWS			
3	MATH 137/147	1A	Calculus I		FWS			
		1A	Course from English Language					
4	Math English course		Competency requirements list		FWS			
5	MTHEL 131	1	Intro to Actuarial Practice		FWS			≥60% required for admission to ACTSC
6	CS 116 or CS 136 or CS 146	1B	CS Core II	CS Core I	FWS			* a few other options - see first year advisor if you have issues
7	MATH 136/146	1B	Linear Algebra 1	≥60% in M135	FWS			
8	MATH 138/148	1B	Calculus II	≥60% in M137	FWS			
9	ECON 101	1	Intro microeconomics	200%   11 01137	FWS	VEE-E	VEE-E	
		1/2						
10	ECON 102		Intro macroeconomics  Core Concepts of accounting		FWS	VEE-E	VEE-E	
11	AFM 101	1	information		FWS	VEE-AF	VEE-AF	
		1/2	Introduction to managerial					
12	AFM 102		accounting	AFM101	WS			
13	MATH 235/245	2A	Linear Algebra 2	≥60% in M136, Coreq M138	FWS			
14	MATH 237/347	2A	Calculus 3	≥60% in M136,≥60% in M138	FWS			
15	STAT 230/240	2A	Probability	≥60% in M135, ≥60% in M137, Coreq M138	FWS	Р	Р	
		2A						
16	ACTSC 231		Introductory Financial Mathematics	M137, level 2A, Coreq S230	FWS	FM	FM	
17	AMATH 250	2	Intro to diff equations	M138	FWS			
18	STAT 231/241	2B	Statistics	M138,S230	FWS			
19	ACTSC 232	2B	Life Contingencies 1	≥60% in AS231, ≥60% in MTHEL 131, S.230	FWS	LTAM		
20	ACTSC 371	2/3	Introduction to Investments	Coreq S231	FWS	IFM	IFM	
21	ACTSC 372	3	Corporate Finance	AS371, M237	FWS	VEE - AF		
22	ACTSC 331	3A	Life Contingencies 2	≥60% in AS232	FWS	LTAM		
23	One of:							
		3	Introduction to Computational	(CS 116 or 136 or 138 or 146), M 235/245,				
	AMATH 242/CS 371		Mathematics	M237/247	WS			
	CS 370	3	Numerical Computation	M 136, M138, (CS 234 or CS 241 or CS 246)	FWS			
24	STAT 330	3	Stat theory and methods	M237, ≥60% in S230,S231	FWS	VEE-MS		
25	STAT 331	3	Applied linear models	M235, ≥60% in S231	FWS	SRM, PA	MAS-I	
26	STAT 333	3	Applied probability	≥60% in S230, level 3A	FWS	SKW, TA	MAS-I	
20	31A1 333		• • • •	(AS331 or S331),≥70% in EMLS 101R,	FVVS		IVIA3-1	
0.7	FNCL 270/MTHEL 200	2D / 4	Professional Communications in	102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, 223	E)4/0	DA		
	ENGL 378/MTHEL 300	3B/4 3/4	Statistics and Actuarial Science		FWS	PA		STAT 341 is NOT accepted
28	STAT 340		Simulation	S231,CS Core II	WS			31A1 341 IS NOT accepted
29	ACTSC 431	4	Loss models 1	\$330,\$333	FS	STAM		
30	ACTSC 445	4	Quantitative Enterprise Risk Management	(AS231,371), (S330 and 333 or 334)	FS			
		4	<u> </u>	(AS231,371),(S333 or 334)				
31	ACTSC 446	4	Mathematics of Financial Markets		FW	IFM	IFM	
22	CS 476	4	Numerical Computation for Financial  Modeling	CS 370 or AMATH 232/CS 371, S231	١٨/			
32	One of:		Modeling		W			
	ACTSC 471/AFM 476	4	Advanced corporate finance	AS372	W			-
	AFM 424	3/4	Investments	AS372	FW			
+	2 Additional 400 level A	CTSC cou	urses; currently available courses incl	ude:				
	ACTSC 432	4	Loss models 2	\$330,\$333	FS	STAM	MAS-II	
	ACTSC 433	4	Survival analysis	AS331,S330	W	LTAM		
					W (odd			
	ACTSC 453	4	Pensions	AS331	years)			<u> </u>
	ACTSC 455	4	Advanced Life Insurance Practice	≥60% in AS331	under review	LTAM		
	ACT 3C 400	4	Auvanceu Life Hisulance Plactice	200 % III A333 I		L I AIVI		<u> </u>
	ACTSC 462	4	Intro to Property & Casualty Pricing	(AFM 272 or AS 231)	under review	STAM	Exam 5	
				· · · · · · · · · · · · · · · · · · ·				
+	5 Additional courses of v	which at	least 3 must be outside the math fact	ulty (2 if AFM 424 is taken)				
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	Students who want a	double	major with Statistics must have S	STAT 332 and a total of 3 STAT 4Y	X courses			
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	Total 40 course	<u> </u>						<u> </u>
<u> </u>	i otal 40 course	, 3					<u> </u>	

<sup>\*</sup>AFM 424 and ACTSC 471/AFM 476 can not be double counted on the 2 Additional list and as a specific requirement (#33). If you want them to count under the 1 Additional list, you MUST complete both.

Jul-18

SOA and CAS exam mappings are intended to be a guideline for students.

The entire CAS MAS-II syllabus cannot be directly mapped to the program's courses. In addition to the courses indicated above, students preparing for this exam may also consider taking STAT 430, STAT 441, STAT 442, STAT 450 and STAT 440.