

Actuarial Science--Finance Option Honours Plan

2017-2018 Calendar

	Course	Year / Term	Topic	Pre-reqs	Offering	SoA / CAS exams	CIA Accreditation	Comments
1	CS 115 or CS 135 or CS 145 *	1A	CS Core I		FWS	Changes are coming in 2018. See our website for updated information. We will post it as we receive it.	Updates are coming in 2018. See our website for updated information. We will post it as we receive it.	* a few other options - see first year advisor if you have issues
2	MATH 135/145	1A	Algebra		FWS			
3	MATH 137/147	1A	Calculus I		FWS			
4	Math English course	1A	Course from English Language 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		FWS	VEE-E		
10	ECON 102	1/2	Intro macroeconomics		FWS	VEE-E		
11	AFM 101	1	Core Concepts of accounting information		FWS			
12	AFM 102	1/2	Introduction to managerial 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			
16	ACTSC 231	2A	Introductory Financial Mathematics	M137, level 2A, Coreq S230	FWS			
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			
20	ACTSC 371	2/3	Introduction to Investments	Coreq S231	FWS			
21	ACTSC 372	3	Corporate Finance	AS371, M237	FWS			
22	ACTSC 331	3	Life Contingencies 2	≥60% in AS232	FWS			
23	One of:							
	AMATH 232/CS 371	3	Introduction to Computational Mathematics	(CS 116 or 136 or 138 or 146), M 235/245, 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			
25	STAT 331	3	Applied linear models	M235, ≥60% in S231	FWS			
26	STAT 333	3	Applied probability	≥60% in S230, level 3A	FWS			
27	ENGL 378/MTHEL 300	3B/4	Professional Communications in Statistics and Actuarial Science	(AS331 or S331), ≥70% in EMLS 101R, 102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, 223	FWS			
28	STAT 340	3/4	Simulation	S231, CS Core II	WS			STAT 341 is NOT accepted
29	ACTSC 431	4	Loss models 1	S330, S333	FS			
30	ACTSC 445	4	Quantitative Enterprise Risk Management	(AS231, 371), (S330 and 333 or 334)	FS			
31	ACTSC 446	4	Mathematics of Financial Markets	(AS231, 371), (S333 or 334)	FW			
32	CS 476	4	Numerical Computation for Financial Modeling	CS 370 or AMATH 232/CS 371, S231	W			
33	One of:							
	ACTSC 471/AFM 476	4	Advanced corporate finance	AS372	W			
	AFM 424	3/4	Investments	AS372	FW			
+	2 Additional 400 level ACTSC courses; currently available courses include:							
	ACTSC 432	4	Loss models 2	S330, S333	FS			
	ACTSC 433	4	Survival analysis	AS331, S330	W			
	ACTSC 453	4	Pensions	AS331	W (odd years)			
	ACTSC 455	4	Advanced Life Insurance Practice	≥60% in AS331	under review			
	ACTSC 462	4	Intro to Property & Casualty Pricing	(AFM 272 or AS 231)	under review			
	ACTSC 463	4	Intro to Property & Casualty Loss Reserving	(AFM 272 or AS 231), (S331 or 371 or 373)	under review			
+	5 Additional courses of which at least 3 must be outside the math faculty (2 if AFM 424 is taken)							
	Students who want a double major with Statistics must have STAT 332 and a total of 3 STAT 4XX courses							
	Total 40 courses							

*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.

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Occasionally mistakes are found on these sheets. Make sure you have the most up to date version, and know that a mistake on this sheet, will not allow you to graduate missing a required course. The undergraduate calendar is the official list of required courses for any program and these sheets are created to help things be easier for you.