

# Actuarial Science--Finance Option Honours Plan

## 2009-2010 Calendar

	Course	Year	Term	Math Core?	Topic	Pre-reqs	Offering	SoA/CAS exams	Comments
1	CS 125 or 133 or 135 or 134 or 115 or 230 or 234 or 241	1	A	y	CS Core I		FWS		
2	MATH 135/145	1	A	y	Algebra		FWS		
3	MATH 137/147	1	A	y	Calculus I		FWS		
4	ECON 101	1	A/B	n	Intro microeconomics		FWS	VEE-E	
5	AFM 101	1	A	n	Core Concepts of accounting information		FWS		
6	CS 134 or 136 or 230 or 234 or 241 or 116 or 145	1	B	y	CS Core II	CS Core I	FWS		
7	MATH 136/146	1	B	y	Linear Algebra 1	M135	FWS		
8	MATH 138/148	1	B	y	Calculus II	M137	FWS		
9	ECON 102	1	B	n	Intro macroeconomics		FWS	VEE-E	
10	AFM 102	1/2	B/A	n	Introduction to managerial accounting	AFM101	WS		
11	ENGL 119	1	A/B	n	Intro academic writing		FWS		
12	MATH 235	2	A	y	Linear Algebra 2	M136	FWS		
13	MATH 237	2	A	y	Calculus 3	M136,138	FWS		
14	ACTSC 231	2	A	n	Maths of finance	M137, level 2A	FWS	FM	
15	STAT 230	2	A	y	Probability	M137	FWS	P	
16	ONE OF:								
	a) MATH 239	2	B	n	Intro combinatorics	M136,138	FWS		
	b) AMATH 231	2	B	n	Calculus 4	M237	FW		
	c) AMATH 250	2	B	n	Intro to diff equations	M138	FWS		
17	STAT 231	2	B	y	Statistics	M138,S230	FWS		
18	ACTSC 232	2	B	n	Intro actuarial math	AS231,S230	FWS	MLC	
19	ACTSC 371	2/3	B/A	n	Corporate finance 1	Coreq S231	FWS	FM	
20	ACTSC 331	3	A	n	Life Contingencies 1	AS232	FWS	MLC	
21	STAT 330	3	A/B	n	Stat theory and methods	M237,S231	FWS		
22	STAT 333	3	A/B	n	Applied probability	S230, level 3A	FWS		
23	STAT 331	3	A/B	n	Applied linear models	M235,S231	FWS	VEE-AS	
24	ACTSC 372	3	A/B	n	Corporate finance 2	AS371	WS	VEE-CF	
25	STAT 340/CS 437	3/4	A/B	n	Simulation	S231,CS Core II	WS	C	
26	ACTSC 431	4	A	n	Loss models 1	S330,S333	FS	* C	* most exam C material from these courses
27	ACTSC 445	4	A	n	Asset liability management	(AS231,371), (S330 and 333 or 334)	FS	FSA(E,F)	
28	ACTSC/STAT 446	4	A/B	n	Math models in finance	(AS231,371), (S333 or 334)	FW	MFE	
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	4 Additional 300-400 level ACTSC courses or AFM 472 or STAT 433 or STAT 443; currently available courses include:								
	ACTSC 363	3	A/B	n	Intro P&C	AS231,S230	F	FAP	
	ACTSC 432	4	A	n	Loss models 2	S330,S333	FS	* C	* most exam C material from these courses
	ACTSC 433	4	B	n	Survival analysis	AS331,S330	W	C	
	ACTSC 453	4	B	n	Pensions	AS331	W	FAP/FSA(R)	
	ACTSC 471/AFM 476	4	A/B	n	Advanced corporate finance	AS372	F	FSA(F)	
	AFM 472	3/4	B/A	n	Investments	AS 372	FW	FSA(F,V)	
	STAT 443	3/4	B/A	n	Forecasting	S331	FWS	VEE-AS	
	STAT 433	4	A/B	n	Stochastic processes	S333	F		
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	8 Additional courses of which at least 5 must be outside the math faculty (4 if AFM 472 is taken)								
	Popular non-math electives : ECON 201, 202, SPC 223, PSYCH 101, BUS 111W, MTHL 131, JAPAN 101R, AFM 131, 231								
	<b>Please Note: Students who take ACTSC/STAT 446 CAN NOT get credit for ECON 372</b>								
Total 40 courses									