

Actuarial Science Honours Plan

2012-2013 Calendar

	Course	Year	Term	Math Core?	Topic	Pre-reqs	Offering	SoA/CAS exams	Comments
1	CS 115 or CS 135 or CS 145 *	1	A	y	CS Core I		FWS		* a few other options - see advisor if you have issues
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	CS 116 or CS 136 or CS 146 *	1	B	y	CS Core II	CS Core I	FWS		* a few other options - see advisor if you have issues
6	MATH 136/146	1	B	y	Linear Algebra 1	M135	FWS		
7	MATH 138/148	1	B	y	Calculus II	M137	FWS		
8	ECON 102	1	B	n	Intro macroeconomics		FWS	VEE-E	
9	ENGL 119*	1	A/B	n	Intro academic writing		FWS		* or a course from a list in calendar if you got a good or excellent on the ELPE
10	MTHEL 131	1	A/B	n	Intro to actuarial practice		FW		
11	MATH 235	2	A	y	Linear Algebra 2	M136	FWS		
12	MATH 237	2	A	y	Calculus 3	M136,138	FWS		
13	ACTSC 231	2	A	n	Maths of finance	M137, level 2A	FWS	FM	
14	STAT 230	2	A	y	Probability	M137	FWS	P	
15	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		
16	STAT 231	2	B	y	Statistics	M138,S230	FWS		
17	ACTSC 232	2	B	n	Intro actuarial math	AS231,S230, ENGL 119 or Good/Excellent in ELPE	FWS	MLC	
18	ACTSC 371	2/3	B/A	n	Corporate finance 1	Coreq S231	FWS	FM	
19	ACTSC 331	3	A	n	Life Contingencies 1	≥60% in AS232	FWS	MLC	
20	STAT 330	3	A/B	n	Stat theory and methods	M237, ≥60% in S230,S231	FWS		
21	STAT 333	3	A/B	n	Applied probability	≥60% in S230, level 3A	FWS		
22	STAT 331	3	A/B	n	Applied linear models	M235, ≥60% in S231	FWS	VEE-AS	
23	STAT 340	3/4	A/B	n	Simulation	S231, CS Core II	WS	C	
24	ACTSC 431	4	A	n	Loss models 1	S330,S333	FS	* C	* most exam C material from these courses
25	ACTSC 432	4	A	n	Loss models 2	S330,S333	FS	* C	* most exam C material from these courses
+	4 Additional 300-400 level ACTSC courses (or AFM 472 or STAT 431 or STAT 443); currently available courses include:								
	ACTSC 372	3	A/B	n	Corporate finance 2	AS371	FWS	VEE-CF	
	ACTSC 433	4	B	n	Survival analysis	AS331,S330	W	C	
	ACTSC 445	4	A	n	Asset liability management	(AS231,371), (S330 and 333 or 334)	FS	C, FSA(E,F)	
	ACTSC 446	4	A/B	n	Math models in finance	(AS231,371) (S333 or 334)	FW	MFE	
	ACTSC 453	4	B	n	Pensions	AS331	W	FAP/FSA(R)	
	ACTSC 455	4	A/B	n	Advanced Life Insurance Practice	≥60% in AS331	W	MLC (as of spring 2012)	
	ACTSC 462	4	A/B	n	Intro to Property & Casualty Pricing	(AFM 272 or AS 231)	varies	CAS - Exam 5	
	ACTSC 463	4	A/B	n	Intro to Property & Casualty Loss Reserving	(AFM 272 or AS 231), (S331 or 371 or 373)	varies	CAS - Exam 6	
	ACTSC 471/AFM 476	4	A/B	n	Advanced corporate finance	AS372	F		
	AFM 472	3/4	B/A	n	Investments	AS372	FW	FSA(F,V)	
	STAT 443	3/4	B/A	n	Forecasting	S331	FWS	VEE-AS	
	STAT 433 or STAT 431	4	A/B	n	Stochastic processes/Generalized linear models	S333/S330,S331	F		
+	2 Additional 300-400 level mathematics half-unit courses; common choices are								
	CO 350, 480, STAT 332, STAT 433, STAT 450 ACTSC courses not used to satisfy "+4additional" above								
+	9 Additional courses, of which AT LEAST 6 must be outside the math faculty (5 if AFM 472 is taken)								
	Please Note: Students who take ACTSC/STAT 446 CAN NOT get credit for ECON 372								
	Students who want a double major with Statistics must have STAT 332 and 3 400-level STAT courses (STAT 443 or 431 can count in both areas)								
Total 40 courses									