

Double Actuarial Science Finance and Health Statistics Honours Plan									
2011-2012 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	HLTH 101	1	A/B	n	Introduction to Health 1		F		
13	MATH 235	2	A	y	Linear Algebra 2	M136	FWS		
14	MATH 237	2	A	y	Calculus 3	M136,138	FWS		
15	ACTSC 231	2	A	n	Maths of finance	M137, level 2A	FWS	FM	
16	STAT 230	2	A	y	Probability	M137	FWS	P	
17	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		
18	STAT 231	2	B	y	Statistics	M138,S230	FWS		
19	STAT 232	2	A/B	n	Intro to Medical Statistics	Coreq S230	F		
20	ACTSC 232	2	B	n	Intro actuarial math	AS231,S230	FWS	MLC	
21	ACTSC 371	2/3	B/A	n	Corporate finance 1	Coreq S231	FWS	FM	
22	ACTSC 331	3	A	n	Life Contingencies 1	AS232 **	FWS	MLC	** ≥60% as of F11
23	STAT 330	3	A/B	n	Stat theory and methods	M237,S231	FWS		
24	STAT 333	3	A/B	n	Applied probability	S230, level 3A	FWS		
25	STAT 331	3	A/B	n	Applied linear models	M235,S231	FWS	VEE-AS	
26	STAT 332	3	A/B	n	Sampling and Experimental Design	S231			
27	ACTSC 372	3	A/B	n	Corporate finance 2	AS371	WS	VEE-CF	
28	STAT 340	3/4	A/B	n	Simulation	S231,CS Core II	WS	C	
29	ACTSC 431	4	A	n	Loss models 1	S330,S333	FS	* C	* most exam C material from these courses
30	ACTSC 445	4	A	n	Asset liability management	(AS231,371), (S330 and 333 or 334)	FS	FSA(E,F)	
31	ACTSC 446	4	A/B	n	Math models in finance	(AS231,371), (S333 or 334)	FW	MFE	
32	STAT 431	4	A/B	n	Generalized linear models	S330,S331	F		
33	STAT 436	4	A/B	n	Intro to the Analysis of Spatial Data in Health Research	S333,S431	W		first offered W 2014
34	STAT 437	4	A/B	n	Analysis of Longitudinal Data in Health Research	S333,S431	W		first offered W 2014
35	CS 330	3/4	A/B	n	Management Information Systems	One of CS 116/134/136/138/145 or 146	FWS		
36	CS 338	3/4	A/B	n	Computer Applications in Business	One of CS230/234/241/330	FWS		
37	CS 432	3/4	A/B	n	Business Systems Analysis	CS330, level 3A	FWS		
38	ECON 201	2/3/4	B/A	n	Microeconomic Theory 1	ECON 101	FWS		
39	ECON 301	3/4	A/B	n	Microeconomic Theory 2	ECON 201	FWS		
40	ECON 456	3/4	A/B	n	Health Economics	ECON 301, S331/371	F		first offered F2012
41	GERON/HLTH 245	2/3/4	B/A	n	The Canadian Health Care System		F		
42	HLTH 333	2/3/4	B/A	n	Experimental Methods and Observational Methods in Epidemiology		F		
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	3 Additional 300-400 level ACTSC courses or AFM 472 or STAT 433 or STAT 443; currently available courses include:								
	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 455	4	A/B	n	Advanced Life Insurance Practice	AS331 **	varies	MLC (as of spring 2012)	** ≥60% as of F11
	ACTSC 462	4	A/B	n	Intro to Property & Casualty Pricing	(AFM 272 or AS 231)	varies	CAS - Exam 5	Antireq: 363
	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	Antireq: 363
	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	