

STATISTICS - ACTUARIAL JOINT, B.SC. HONOURS

Degree Requirements

Joint Honours

		9 credit hours of electives ^{3, 4}	9
		Hours	30
		Total Hours	120
¹	The following substitutions are allowed:		
	• MATH 1210 (B) or MATH 1300 (C+) in place of MATH 1220;		
	• MATH 1500 (B) or MATH 1510 (B) in place of MATH 1230;		
	• MATH 1700 (B) or MATH 1710 (B) in place of MATH 1232;		
	• MATH 2150 in place of MATH 2720;		
	• STAT 1000 and STAT 2000 (B) in place of STAT 1150.		
²	A minimum grade of "C+" is required in this course to graduate.		
³	The following courses are recommended electives for this program:		
	COMP 1010, FIN 3410, FIN 4240, STAT 3030, STAT 3490, STAT 3550, STAT 4150, STAT 4630.		
⁴	The following courses are not to be used for credit in this program:		
	STAT 3000, STAT 4000.		
⁵	ACT 4030 may be taken in Year 4.		
Course	Title	Hours	
Year 1			
STAT 1150	Introduction to Statistics and Computing ¹	3	
STAT 2150	Statistics and Computing (B)	3	
ECON 1010	Introduction to Microeconomic Principles	3	
ECON 1020	Introduction to Macroeconomic Principles	3	
MATH 1220	Linear Algebra ¹	3	
MATH 1230	Differential Calculus ¹	3	
MATH 1232	Integral Calculus ¹	3	
MATH 1240	Elementary Discrete Mathematics	3	
3 credit hour "W" course		3	
3 credit hours of electives		3	
		Hours	30
Year 2			
STAT 2300	Principles of Data Collection	3	
STAT 2400	Introduction to Probability ¹	3	
STAT 2800	Introduction to Probability ²	3	
ACT 2120	Interest Theory ²	3	
ACC 1100	Introductory Financial Accounting	3	
FIN 2010	Introduction to Finance ²	3	
MATH 2720	Multivariable Calculus ¹	3	
9 credit hours of electives ^{3, 4}		9	
		Hours	30
Year 3			
ACT 2210	Introduction to Risk Management ²	3	
STAT 3100	Introduction to Statistical Inference	3	
STAT 3150	Statistical Computing	3	
STAT 3450	Linear Models	3	
STAT 3690	Multivariate Analysis	3	
ACT 3130	Actuarial Models 1 ²	3	
ACT 3340	Valuations for Actuarial Practice ²	3	
ACT 4020	Short Term Actuarial Mathematics I ²	3	
ACT 4030	Short Term Actuarial Mathematics II ^{2, 5}	3	
3 credit hours of electives ^{3, 4}		3	
		Hours	30
Year 4			
STAT 4100	Statistical Inference	3	
STAT 4250	Statistical Learning	3	
ACT 3230	Actuarial Models 2 ²	3	
ACT 4060	Actuarial Aspects of Investment Practice ²	3	
ACT 4160	Introduction to Property and Casualty Insurance Industry ²	3	
6 credit hours of 4000 level courses in Statistics ^{3, 4}		6	