

STATISTICS - ACTUARIAL JOINT, B.SC. HONOURS

Degree Requirements

Joint Honours

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 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

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.