

# STATISTICS - ACTUARIAL JOINT, B.SC. HONOURS

9 credit hours of electives <sup>3,4</sup>	9
<b>Hours</b>	<b>30</b>
<b>Total Hours</b>	<b>120</b>

## Degree Requirements

### Joint Honours

Course	Title	Hours
<b>Year 1</b>		
STAT 1150	Introduction to Statistics and Computing <sup>1</sup>	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 <sup>1</sup>	3
MATH 1230	Differential Calculus <sup>1</sup>	3
MATH 1232	Integral Calculus <sup>1</sup>	3
MATH 1240	Elementary Discrete Mathematics	3
One "W" course		3
3 credit hours of electives		3
<b>Hours</b>		<b>30</b>
<b>Year 2</b>		
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 <sup>2</sup>	3
ACT 2210	Introduction to Risk Management <sup>2</sup>	3
ACC 1100	Introductory Financial Accounting	3
FIN 2010	Introduction to Finance <sup>2</sup>	3
MATH 2720	Multivariable Calculus <sup>1</sup>	3
6 credit hours of electives <sup>3,4</sup>		6
<b>Hours</b>		<b>30</b>
<b>Year 3</b>		
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 <sup>2</sup>	3
ACT 3340	Valuations for Actuarial Practice <sup>2</sup>	3
ACT 4020	Short Term Actuarial Mathematics I <sup>2</sup>	3
ACT 4030	Short Term Actuarial Mathematics II <sup>2,5</sup>	3
6 credit hours of electives <sup>3,4</sup>		6
<b>Hours</b>		<b>30</b>
<b>Year 4</b>		
STAT 4100	Statistical Inference	3
STAT 4250	Statistical Learning	3
ACT 3230	Actuarial Models 2 <sup>2</sup>	3
ACT 4060	Actuarial Aspects of Investment Practice <sup>2</sup>	3
ACT 4160	Introduction to Property and Casualty Insurance Industry <sup>2</sup>	3
6 credit hours of 4000 level courses in Statistics <sup>3,4</sup>		6

- <sup>1</sup> 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.
- <sup>2</sup> A minimum grade of "C+" is required in this course to graduate.
- <sup>3</sup> 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.
- <sup>4</sup> The following courses are not to be used for credit in this program: STAT 3000, STAT 4000.
- <sup>5</sup> ACT 4030 may be taken in Year 4.