

STATISTICS - ACTUARIAL JOINT, B.SC. HONOURS

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| 9 credit hours of electives ^{3,4} | 9 |
| Hours | 30 |
| Total Hours | 120 |

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 |
| One "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 |
| ACT 2210 | Introduction to Risk Management ² | 3 |
| ACC 1100 | Introductory Financial Accounting | 3 |
| FIN 2010 | Introduction to Finance ² | 3 |
| MATH 2720 | Multivariable Calculus ¹ | 3 |
| 6 credit hours of electives ^{3,4} | | 6 |
| Hours | | 30 |
| Year 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 |
| 6 credit hours of electives ^{3,4} | | 6 |
| 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 |

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.