

Actuarial Science Major Requirements

Mathematics/Statistics (6 required courses)

- MATH 113 (Calculus I)
- MATH 114 (Calculus II)
- MATH 200 (Multi-Variable Calculus)
- MATH 240 (Linear Algebra)
- MATH 313 (Probability)
- STAT 314 (Mathematical Statistics)

Business Administration (3 required courses)

- ACCT 210 (Intro. Financial Accounting) -
OR- ACCT 100
- FINC 321 (Financial Management) -**OR-**
Both FINC 310 and FINC 311
- FINC 324 (Corporate Finance) -**OR-** FINC
325 (Investments)

Actuarial Science Core (3 required courses)

- ACSC 220 (Introduction to Risk
Management and Insurance)
- ACSC 264 (Theory of Interest)
- ACSC 364 (Mathematical Finance)

One of the Following Advanced Exam Tracks:

- SOA-LTAM: ACSC 451 and ACSC 452
- SOA-SRM: STAT 333 and STAT 400* (see
special registration notes)
- SOA-STAM and CAS-MAS1: Special Topics
and STAT 370 (by director permission)

Additional requirements (three required courses)

- Intro to Programming: CISC 131 -OR- CISC 260
- One of: COJO 100 (Public Speaking) -OR- COJO 105 (Communication in the Workplace) -we
recommend the specific spring semester COJO 105 section for ACSC majors. -OR- ENGL 315
- ECON 252 (Principles of Microeconomics)

Recommended Additional Courses

- STAT 333 (Applied Statistical Methods)
- ECON 251 (Principles of Macroeconomics)

Special Registration Notes

- MATH 313, Probability should be taken no later than the spring semester of your sophomore year to avoid difficulties with scheduling unless placement into MATH 108.
- **FINC 321/310/311, prereq's:** Actuarial science majors need to take ACCT 210, MATH 313, and ECON 252 prior to registering for FINC 321. If you have taken ECON 251, you can register for FINC 321 w/o special permission. If you have not taken ECON 251, you can obtain permission to register for this course from the Opus College of Business Undergraduate Administration office [Margaret Gikling, (651) 962-5548, mhgikling@stthomas.edu].
- **FINC 324/325 prereq's:** ACSC 220 replaces ACCT 215 and CISC 131/260 replaces CISC 200.
- **STAT 400 prereq's:** (CISC 130 or CISC 131) and STAT 333. CISC 260 is not sufficient.

Courses offered only once a year:

Fall semester: ACSC 220, ACSC 451, (Special Topics - every other fall)

Spring semester: CISC 260, ACSC 364, ACSC 452, (STAT 370 – every other spring)

Validation by Educational Experience (VEE): To become a credentialed actuary of either CAS or SOA, you need to take the following UST courses that have been approved by the professional societies, CAS & SOA. In each of this course, you need to earn a grade of B- or higher.

Economics: ECON 251 & 252: (Intro to Macro and Micro Econ)

Accounting and Finance:

- **ACCT 210 -or- ACCT 100, and**
- **FINC 321 -or- both FINC 310 and FINC 311**

Mathematical Statistics: STAT 314 (Mathematical Statistics)