

**Illinois State University
Department of Mathematics
Actuarial Science Sequence**

This sequence of the major is designed to prepare actuaries for work in the insurance industry or as consultants dealing with the risk of potential financial losses. Graduates of the program are prepared for an actuarial career in either the Life and Health field or the Property and Casualty field.

Major Course Requirements

MAT 145 Calculus I (4 hours)
MAT 146 Calculus II (4 hours)
MAT 147 Calculus III (4 hours)
MAT 175 Elementary Linear Algebra (4 hours)
MAT 280 Financial Mathematics (4 hours)
MAT 350 Applied Probability Models (4 hours)
MAT 351 Statistics and Data Analysis (4 hours)
MAT 353 Regression and Time Series Analysis (4 hours)
MAT 380 Actuarial Models I (4 hours)
MAT 381 Actuarial Models II (4 hours)
MAT 383 Actuarial Models III (4 hours)
ACC 131 Financial Accounting (3 hours)
ACC 132 Managerial Accounting (3 hours)
ECO 105 Principles of Economics (4 hours)
FIL 242 Investments (3 hours)
FIL 250 Introduction to Risk and Insurance (3 hours)
FIL 341 Intermediate Business Finance (3 hours)

One computer programming course: IT 168 (4 hours)

Students are encouraged to take MAT 298, MAT 283, and seminars for Actuarial Examinations offered through the ISU Conferencing Unit and Extended University.

Graduation Requirements: Complete a minimum of 120 hours; complete the General Education requirements; complete at least 42 senior level hours; complete residency and language requirements; complete a global studies course; maintain a GPA of 3.0 in Mathematics; maintain a GPA of 2.0 overall; and complete a senior portfolio. **For complete official information, consult your catalog.**

Contact the Actuarial Director for more information.

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**Actuarial Sequence in Mathematics, Bachelor of Science
Sample Four-Year Plan**

Year 1

Fall

ENG 101 or COM 110
MAT 145 (must get at least a B)
GE Natural Science
ECO 105 (GE Soc Sci)
LAN 112***

Spring

COM 110 or ENG 101
MAT 146 (must get at least a B)
IT 168
GE Natural Science

Year 2

Fall

MAT 147
MAT 280 (must get at least a B)
ACC 131 (sophomore standing reqd.)
GE Individual & Civic Life
GE United States Traditions

Spring

MAT 175
MAT 350 (must get at least a B)
ACC 132 (prerequisite: ACC 131)
GE Language in the Humanities
Review for Actuarial Exam P/I

Year 3

Fall

MAT 352 (must get at least a C)
FIL 242 (must be taken in the Fall)
MAT 283 (optional)
GE Fine Arts
Review for Actuarial Exam FM/2

Spring

MAT 380
FIL 250 (junior standing required)
FIL 341 (must be taken in the Spring)
GE Humanities
Review for Actuarial Exam MLC

Year 4

Fall

MAT 353
MAT 381 (offered only in the Fall)
MAT 383
Review for Actuarial Exam MFE/3F

Spring

MAT 384
University wide electives, if needed

***Students must satisfy a foreign language requirement that may be met by: 3 years of a single foreign language in high school or completion of the second semester or higher of college-level foreign language (LAN 112 or articulated course) with a grade of "C" or better or equivalent proficiency as determined by examination. American Sign Language may be used to fulfill this requirement by transfer credit or by proficiency. If needed, foreign language classes should be added to the above schedule.