

**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)  
MAT 384 Actuarial Modeling (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

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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2014-2016 Catalog

**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)  
Inner Core Science  
ECO 105

**Spring**

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

**Year 2**

**Fall**

MAT 147  
MAT 175  
ACC 131 (sophomore standing reqd.)  
Middle Core Language in Humanities  
Middle Core United States Traditions

**Spring**

MAT 280 (must get at least a B)  
MAT 350 (must get at least a B)  
ACC 132 (prerequisite: ACC 131)  
Middle Core Individuals & Civic Life  
Review for Actuarial Exam P/1

**Year 3**

**Fall**

MAT 380  
FIL 242 (must be taken in the Fall)  
MAT 283 (optional)  
Middle Core Individuals & Society  
Review for Actuarial Exam FM/2

**Spring**

MAT 351 (must get at least a C)  
FIL 250 (junior standing required)  
FIL 341 (must be taken in the Spring)  
Outer Core Fine Arts  
MAT 381  
Review for Actuarial Exam MLC

**Year 4**

**Fall**

MAT 353 (offered only in the Fall)  
MAT 383  
Outer Core Social Sciences  
Review for Actuarial Exam MFE/3F

**Spring**

MAT 384  
Outer Core Social Science Global Studies  
Outer Core Humanities  
Electives

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.