

STATISTICS & ACTUARIAL SCIENCE

University of Northern Iowa College of Humanities, Arts & Sciences

<https://uni.edu/math/>

About The Major

Actuarial science is a discipline that applies mathematical and statistical methods to assess risk in insurance, finance, and other industries.

Actuaries use mathematical and statistical concepts to determine the likelihood of certain events occurring in the future (and when they'll happen) and their expected financial impact.

Sample Course Work

Calculus I, II, III

Linear Algebra for Applications

Introduction to Statistical Methods

Introduction to Probability

Mathematics of Finance

Introduction to Financial Engineering

Possible Careers

*Some titles may require further education

Actuary

Cost Estimator

Professor

Accountant

Financial Analyst

Mathematician

Auditor

Economist

Statistician

Budget Analyst

Personal Financial Advisor

Insurance Underwriter

UNI Graduates: Where Are They Now?

- Principal Financial Group
- Transamerica
- Athene USA
- Nationwide
- CUNA Mutual Group
- Allstate
- Global Atlantic Financial Group
- John Deere
- Farm Bureau Financial Services
- American Family Insurance
- Coaching Actuaries
- IMT Insurance
- Arity
- Sammons Financial Group
- Grinnell Mutual
- Hause Actuarial Solutions, Inc

Skills Needed

- Analytical skills
- Communication skills
- Computer skills
- Interpersonal skills
- Math skills
- Problem-solving
- Time-management
- Critical Thinking
- Organization