

FACT

The Society of Actuaries describes the work of an actuary as a combination of the “skills of a business executive, mathematician, and financial and investment manager. They address big problems with well-reasoned solutions that make business better.”

Source: Society of Actuaries Website, www.soa.org, 2015

In Demand

According to the U.S. Department of Labor, Bureau of Labor Statistics, the field is experiencing rapid growth. What’s more, the actuarial field is global.

Source: Occupational Outlook Handbook 2012 – 13, Bureau of Labor Statistics

Outstanding Preparation

The undergraduate major in Mathematics with an Actuarial Science concentration prepares students for actuarial positions in business, government and industry. Coursework in the sequence provides a foundation for the preparation needed to sit for a series of examinations developed by the professional actuarial societies. In addition to a strong knowledge base in mathematics that includes calculus, linear algebra, probability and statistics, coursework includes risk management, finance, economics, and investments.

A Choice of Careers

Successful completion of coursework in the mathematics — actuarial major prepares you for employment in diverse careers where mathematical and business skills are required, including business, education, finance, government, health care and insurance.

Unlimited Opportunity

GSU offers superior educational opportunity at an affordable tuition rate while maintaining the professional quality of its programs. GSU’s outstanding faculty and real-world curriculum prepare graduates to meet the demands of the future.

Faculty Advisor:

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2016 – 17 Catalog Year



Bachelor of Arts in Mathematics – Actuarial Sciences

College of Arts and Sciences

Degree Requirements

Students must meet all university requirements for a bachelor's degree.

Students must meet the collegial degree requirements listed at this section.

General Education Requirements (39 hours)

Calculus I
Principles of Microeconomics
Principles of Macroeconomics
Life Science
University Physics I with Lab

Program Requirements (48 hours)

MATH - 2150 Discrete Mathematics (3)
MATH - 2292 Calculus II (4)
MATH - 2294 Calculus III (4)
MATH - 2271 Differential Equations (3)
MATH - 2449 Linear Algebra (3)
MATH - 4451 Modern Algebra (3)
PHYS - 2181 University Physics II (3)
PHYS - 2182 University Physics II Lab (1)
STAT - 4219 Statistical Methods (3)

The following courses must be taken at the upper division:

MATH - 4229 Advanced Calculus (3)
MATH - 4133 Number Theory (3)
MATH - 4241 Analysis I: Real Variables (3)
MATH - 4557 Probability (3)
MATH - 4250 Mathematical Statistics (3)
MATH - 4637 Mathematics Laboratory (3)
MATH - 4970 Capstone Internship

Concentration (18 Hours)

ACCT - 2110 Financial Accounting (3)
ECON - 4101 Econometrics I (3)
FIN - 3110 Principles of Fin. Management (3)
FIN - 3501 Investments (3)
FIN - 4501 Financial Options and Futures (3)
FIN - 4502 Advanced Investments (3)

Computer Science Selective (3 hours)

Electives (12 hours)

Total 120 hours

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