

# MASTER OF SCIENCE IN ACTUARIAL SCIENCE - ONLINE PROGRAM

The Master of Science in Actuarial Science (MSAS) program prepares graduates to use advanced quantitative techniques to better understand, measure, and manage risk. In particular, the MSAS program prepares students to become actuaries, and to keep on track toward the professional actuarial Associateship designation.

Many of the courses involve material that is tested on the professional actuarial exams. Other courses provide enhanced communication skills, and more in-depth understanding of the nature and economics of the risk and insurance industry. By selecting an MSAS, graduates of the program are equipped with the knowledge and skills to contribute to the actuarial sub-discipline of their choice.

The format of the MSAS program is online and asynchronous, which provides maximum convenience and flexibility for students. The MSAS is designed to be a one-year full-time program but is flexible enough to be pursued on a part-time basis. The program and its courses are characterized by experiential learning and reflect real-world applications and interdisciplinary engagement.

## Program Outcomes:

As a graduate of the MSAS program, you will:

- Gain a solid understanding of the importance of risk, and how it can be identified, quantified, and managed.
- Develop skills and experience in the application of concepts and techniques tested on professional actuarial exams.
- Keep on track toward a professional actuarial Associateship designation.
- Engage experientially with real-world-type risk problems and situations.
- Appreciate the multi-disciplinary nature of actuarial science and develop a holistic perspective of risk and its management.
- Communicate effectively regarding risks, risk management, and insurance issues, and understand how to better discuss and describe technical material to a variety of audiences.

## Admission Requirements:

- Bachelor's degree from an accredited institution
- A cumulative undergraduate GPA of 3.0 or above
- At least one course in statistics
- Personal essay/statement: Why do you want to pursue Bryant University's Master of Science in Actuarial Science program?
- Two letters of recommendation
- A curriculum vitae or resume

Non-native English language speakers must submit an English language proficiency examination, such as the TOEFL or IELTS.

## Master of Science in Actuarial Science Degree Requirements:

Students are required to take the following courses:

GRO 550	Online Strategies for Success	1
MSAS 501	Short-Term Actuarial Modeling	3
MSAS 502	Long-Term Actuarial Modeling	3
MSAS 503	Advanced Actuarial Statistics	3
MSAS 504	Statistics for Risk Modeling	3
MSAS 505	Actuarial Application Capstone	3
COM 631	Scientific and Technical Communication	3
<b>Student must choose Four (4) courses from the list below:</b>		
MSAS 506	Introduction to Insurance Economics and Regulation	3
MSAS 507	Advanced Financial Mathematics	3
MSAS 508	Short-Term Actuarial Pricing and Reserving	3
MSAS 509	Linear Models	3
MSAS 510	Time Series	3

A minimum of 31 credits requirement to meet the degree requirements.