

ACTUARIAL SCIENCE CONCENTRATION

The Actuarial Science concentration (CASC) provides a unique opportunity for students to build relationships with actuarial professionals in the insurance/consulting industry in the greater Boston area. The concentration provides students majoring in Applied Mathematics with the fundamentals of risk assurance and modeling. Additionally, students will be well-prepared to take the first two Society of Actuaries (SOA) exams: Exam P: Probability and Exam FM: Financial Math. To earn a concentration in Actuarial Science, Applied Mathematics students must complete a total of sixteen (16) credits, which may also satisfy the sixteen (16) credits of required technical electives for Applied Mathematics majors.

Course	Title	Credits
Prerequisite Courses		
MATH1750 or MATH1775	ENGINEERING CALCULUS I INTEGRATED ENGINEERING CALCULUS I	4
or		
MATH1776 & MATH1777	ACTIVE CALCULUS 1A and ACTIVE CALCULUS 1B	4
and		
MATH1850 or MATH1875	ENGINEERING CALCULUS II INTEGRATED ENGINEERING CALCULUS II	4
or		
MATH1876 & MATH1877	ACTIVE CALCULUS 2A and ACTIVE CALCULUS 2B	4
and		
MATH2100	PROBABILITY & STATISTICS FOR ENGINEERS	4
TOTAL CREDITS		12

Course	Title	Credits
Core Requirements		
MATH1950	FINANCIAL MATHEMATICS	4
MATH2250	TIME SERIES	4
MATH4475	ACTUARIAL MATHEMATICS	4
Select one of the following Economics courses:		
ECON4102	PRINCIPLES OF ECONOMICS	4
ECON4152	MACROECONOMICS	4
ECON4154	MICROECONOMICS	4
TOTAL CREDITS (does not include 12 credits of pre-requisite courses)		16