MATHEMATICS-ACTUARIAL SCIENCE (BA OR BS)

Admission

Admission to the Actuarial Science program will be available only to students who meet the following two requirements. First, the student must have a total grade point average of 3.2 or higher or a grade point average of 3.2 or higher in mathematics. The student must also satisfy one of the following:

1. completed MATH 11126Q or MATH 1131Q Calculus I with a grade of at least “B”;
2. successfully completed an honors calculus course with a grade of at least “C”;
3. Received AP credit for MATH 1131Q Calculus I; or
4. received a passing score on one or more of the actuarial examinations.

Students not satisfying one or more of the requirements may be admitted into the program by the Mathematics Department Actuarial Committee.

To remain as an Actuarial Science Major, the student is required to maintain a total grade point average of 3.2 or higher. Students who do not satisfy this requirement may remain in the major with the permission of the director of the Actuarial Science program or their designee. If the student is not continued in the program, but meets minimum University of Connecticut scholastic standards as outlined in the University Senate by-laws, the director or designee will work with the student to identify an appropriate alternative major.

Requirements

The requirements for the B.S. or B.A. degree in Mathematics-Actuarial Science are 40 credits at the 2000 level or above in Mathematics, Statistics, Business, and related areas. The required courses are:

Course	Title	Credits
MATH 2110Q	Multivariable Calculus	4
or MATH 2143Q	Advanced Calculus III	
MATH 2210Q	Applied Linear Algebra	3-4
or MATH 2144Q	Advanced Calculus IV	
MATH 2620	Financial Mathematics I	3
MATH 3160	Probability	3
MATH 3620	Foundations of Actuarial Science	3
MATH 3630	Long-Term Actuarial Mathematics I	4
MATH 3636	Actuarial Statistical Modeling I	3
MATH 3637	Actuarial Statistical Modeling II	3
MATH 3639	Actuarial Loss Models	3
MATH 3640	Short-Term Insurance Ratemaking	3
STAT 3375Q	Introduction to Mathematical Statistics I	3
STAT 3445	Introduction to Mathematical Statistics II	3
Total Credits		**38-39**

Writing and Information Literacy Requirements

To satisfy the Writing in the Major and Information Literacy competencies, all students must pass one of the following courses:

Course	Title	Credits
MATH 2705W	Technical Writing in Mathematics	1
MATH 2710W	Transition to Advanced Mathematics	3
MATH 2720W	History of Mathematics	3
MATH 2794W	Mathematics Writing Seminar	2
MATH 3670W	Technical Writing for Actuaries	3
MATH 3710W	Introduction to Mathematical Modeling	3
MATH 3796W	Senior Thesis in Mathematics	3