ACTUARIAL SCIENCE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Program Overview

The actuarial science program strives to provide high-quality undergraduate-level preparation for students planning careers in the actuarial profession. Students will be thoroughly grounded in the technical skills required for actuarial work and will also be prepared to be business leaders in the financial services industry.

Graduates of the program should clearly meet the entry-level expectations of the leading insurance companies and consulting firms. As such, they should be prepared to be successful on the early professional examinations of the Society of Actuaries and the Casualty Actuarial Society. In addition, they should understand the manner in which this knowledge relates to the business of insurance and be able to solve less structured problems and coherently present their solutions.

The available courses prepare students for the first five examinations of the Society of Actuaries and the first four of the six exams of the Casualty Actuarial Society. These courses also enable students to obtain credit for three Society of Actuaries exams (FE, SRM, and FAM) and the three 'Validation by Educational Experience' subjects. Students typically are ready to take their first examination after two or three semesters and their second exam after three or four semesters.

Actuarial Science Major Requirements

Code	Title	Hours
Business Core Courses		
ACCT 041	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 042	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
ACTS 131	INTRODUCTION TO PROBABILITY I	3
ACTS 131L	INTRODUCTION TO PROBABILITY I LAB	0.5
BLAW 060	BUSINESS LAW I	3
BUS 001	WELCOME TO BUSINESS	1
BUS 002	CAREER READINESS AND PROFESSIONALISM	1
BUS 003	PERSONAL BRANDING EXCELLENCE	1
BUS 004	PURSUING YOUR NORTH STAR	1
BUS 070	GLOBALIZATION	3
BUS 195	BUSINESS STRATEGY AND POLICY	3
ECON 002	PRINCIPLES OF MICROECONOMICS	3
IS 044	MICROSOFT OFFICE TOOLS FOR BUSINESS ANALYSIS	2
IS 075	INFORMATION TECHNOLOGY AND BUSINESS	3
FIN 101	CORPORATE FINANCE	3
MGMT 110	ORGANIZATIONAL BEHAVIOR	3
MGMT 120	MANAGEMENT OF OPERATIONS	3
MKTG 101	MARKETING PRINCIPLES	3
Non-Business Courses		
MATH 050	CALCULUS I	3
MATH 070	CALCULUS II	3
Actuarial Science Major Courses		
ACTS 050	INTRODUCTION TO ACTUARIAL SCIENCE	0
ACTS 120	THEORY OF INEREST	3
ACTS 120L	THEORY OF INTEREST LAB	0.5
ACTS 135	MATHEMATICAL STATISTICS	3
ACTS 140	STATISTICS FOR RISK MODELING	3
ACTS 150	LIFE INSURANCE MATHEMATICS I	3
ACTS 150L	LIFE INSURANCE MATH I LAB	0.5
Select two of the following:		6
CS 065	INTRODUCTION TO COMPUTER SCIENCE I	
FIN 102	ADVANCED CORPORATE FINANCE	
FIN 121	INTRODUCTION TO DERIVATIVES	
INS 180	OPERATIONAL RISK MANAGEMENT	
MATH 100	CALCULUS III	
STAT 172	DATA MINING AND GENERAL LINEAR MODELS	
ACTS 161	SHORT-TERM ACTUARIAL MATH I	3
ACTS 161L	SHORT-TERM ACTUARIAL MATH I LAB	0.5
ECON 010	PRINCIPLES OF MACROECONOMICS	3
INS 051	PERSONAL RISK MANAGEMENT	3
STAT 040	INTRODUCTION TO R AND SAS	3
STAT 170	REGRESSION AND TIME SERIES	3
Total Hours		**83**

In addition to programmatic requirements, students are responsible for satisfying all requirements of the Drake Curriculum (https://catalog.drake.edu/undergraduate/academic-information/drake-curriculum/), including Areas of Inquiry (AOI)

Student must also satisfy university graduation requirements (https://catalog.drake.edu/undergraduate/academic-information/graduation-requirements/) for all undergraduate students..