

MATHEMATICS MAJOR: CONCENTRATION IN ACTUARIAL STUDIES

Admission Requirements for the Mathematics Major

Rigorous high school coursework and strong SAT scores with above average grades in mathematics and computer science courses.

Requirements for Mathematics Major: Concentration in Actuarial Studies

Core Courses Math Major: 22 credits (including Ancillary)

Code	Title	Credits
MA-200	Calculus I	4
MA-201	Calculus II	4
MA-240	Theory of Proof	4
MA-260	Linear Algebra	3
MA-310	Calculus III	4
MA-470	Capstone Experience	3
Total Credits		22

Requirements for the Concentration in Actuarial Sciences: 19 credits

Code	Title	Credits
MA-302	Probability and Statistics	3
MA-303	Mathematical Modeling	3
MA-304	Data Analysis	4
MA-380	Probability	3
MA-382	Actuarial Preparation Workshop	3
MA-425	Mathematical Statistics	3
Total Credits		19

Ancillary Requirements: 30 credits

Code	Title	Credits
EC-110	Introduction to Microeconomics	3
EC-120	Introduction to Macroeconomics	3
EC-200	Intermediate Macroeconomics	3
EC-201	Intermediate Microeconomics	3
BA-210	Financial Accounting I	3
BA-220	Financial Accounting II	3
BA-316	Financial Management	3
BA-404	Corporate Finance	3
CS-265	Database Applications	3
CS-135	Programming for Non-CS Majors	3
Total Credits		30

Total Credits: 71

MA-200, MA-201 and MA-240 must be completed with grades of at least C- by the end of the sophomore year. A student may only retake any of these courses at most once to increase a grade below C-; and may retake at most two of these courses to increase a grade below C-.

Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Department of Mathematics: Mathematics Major Concentration in Actuarial Sciences Sample Timeline for Completion of Degree

Year One		
Semester One		Credits
MA-200	Calculus I	4
CS-135	Programming for Non-CS Majors	3
EC-110	Introduction to Microeconomics	3
EN-101	College Writing I	3
LASC	First-Year Seminar (FYS)	3
Credits		16
Semester Two		Credits
MA-201	Calculus II	4
MA-240	Theory of Proof	4
EC-120	Introduction to Macroeconomics	3
EN-102	College Writing II	3
LASC	LASC Elective (CON)	3
Credits		17
Year Two		
Semester Three		Credits
MA-310	Calculus III	4
MA-302	Probability and Statistics	3
BA-210	Financial Accounting I	3
LASC	LASC Elective (CA)	3
LASC	LASC Elective (USW)	3
Credits		16
Semester Four		Credits
MA-304	Data Analysis	4
BA-220	Financial Accounting II	3
LASC	LASC Elective (NSP)	3
LASC	LASC Elective (GP)	3
MA-303	Mathematical Modeling	3
Credits		16
Year Three		
Semester Five		Credits
MA-380	Probability	3
MA-260	Linear Algebra	3
CS-265	Database Applications	3
LASC	LASC Elective (TLC)	3
LASC	LASC Elective (NSP LAB)	4
Credits		16
Semester Six		Credits
EC-200	Intermediate Macroeconomics	3
BA-316	Financial Management	3
MA-382	Actuarial Preparation Workshop	3
LASC	LASC Elective (ICW)	3
LASC	LASC Elective (HBS)	3
Credits		15
Year Four		
Semester Seven		Credits
MA-470	Capstone Experience	3
EC-201	Intermediate Microeconomics	3
LASC	LASC Elective	3

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SELECT	General Elective	3
Credits		12
Semester Eight		
BA-404	Corporate Finance	3
MA-425	Mathematical Statistics	3
SELECT	General Elective	3
SELECT	General Elective	3
Credits		12
Total Credits		120