

B.A. in Mathematics - Concentration with Actuarial Science

Click on the course number to view course title and description.

Code	Title	Semester Hours
BA Mathematics with Concentration with Actuarial Science Degree Plan (120 hours)		
Core Requirements (33 hours)		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		
Satisfied by EC 2301 and EC 2303		
Mathematics		
Satisfied by MT 2412 in the courses required for this major.		
Natural or Physical Sciences		
Satisfied by CS 1310 or EG 1302 in the courses required for this major.		
Fine Arts		3
Select any 3 hrs. of the following: Art (AR), Drama (DM), Music (MU) or MU 1300		
Foreign Language and International Engagement		6
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of B or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams		
Philosophy - Self		3
PL 1301	Intro to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
Mathematics Major Courses (45 hours)		
MT 2101	Mathematics Working Seminar I	1
MT 2106	Actuarial Science Sophomore Seminar	1
MT 2107	Actuarial Science Junior Seminar	1
MT 2412	Calculus I	4
MT 2413	Calculus II	4
MT 2414	Calculus III	4
MT 2317	Differential Equations	3
MT 2318	Applied Linear Algebra	3
MT 3372	Math Modeling	3
MT 3375	Theory of Interest	3
MT 4331	Probability Theory	3
MT 4332	Statistics	3

MT 4333	Applied Statistical Methods	3
MT 4334	Mathematical Statistics	3
MT 4396	Actuarial Exam P/1 Preparation	3
MT 4397	Actuarial Exam FM/2 Preparation	3
Actuarial Science Concentration (33 hours)		
AC 2301	Financial Accounting	3
AC 2302	Managerial Accounting	3
CS 1310	Programming I in C	3
Any one of the following:		3
CS 3300, CS 3320, QM 4360, QM 3342 or QM 4340		
EC 2301	Introductory Macroeconomic Theory	3
EC 2303	Introductory Microeconomic Theory	3
EN 3342	Technical Writing	3
or CM 3333	Business Writing	
FN 3310	Principles of Finance	3
FN 3340	Fundamentals of Risk Management	3
QM 3321	Business Analytics	3
QM 3330	Management Infor Systems	3
Electives (9 hours)		9
An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.		
Total Semester Hours		120

Degree plan for student entering in even Fall year

This is a recommended degree plan subject to changes. Please meet with your adviser on a regular basis.

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First Year

Fall	Semester Spring Hours	Semester Hours
FYE 1301	3 MT 2413	4
EN 1311	3 PL 1301	3
MT 2101	1 MT 2323	3
MT 2412	4 EC 2303	3
EC 2301	3 AC 2302	3
AC 2301	3	
	17	16

Second Year

Fall	Semester Spring Hours	Semester Hours
CS 1310	3 MT 2102	1
MT 4331	3 TH 1301	3
FN 3310	3 MT 2414	4
MT 3375	3 MT 4332	3
Literature	3 MT 4396	3
	FN 3340	3
	15	17

Third Year

Fall	Semester Spring Hours	Semester Hours
Fine Arts	3 Foreign Languages and Global Engagement	3
Foreign Languages and Global Engagement	3 PL 2301	3
EN 3342	3 Natural or Physical Sciences	3

MT 2317	3 MT 2103	1
MT 4333	3 MT 4334	3
	MT 4396	3
15		16

Fourth Year

Fall	Semester Spring Hours	Semester Hours
History	3 Advanced Theology	3
Elective	3 MT 3324	3
MT 4395	3 Elective	3
QM 3321	3 Elective	3
12		12

Total Semester Hours 120

Degree plan for student entering in even Odd year

First Year

Fall	Semester Spring Hours	Semester Hours
MT 2101	1 MT 2413	4
FYE 1301	3 PL 1301	3
EN 1311	3 MT 2323	3
MT 2412	4 EC 2303	3
EC 2301	3 AC 2302	3
AC 2301	3	
17		16

Second Year

Fall	Semester Spring Hours	Semester Hours
CS 1310	3 MT 2102	1
MT 4331	3 TH 1301	3
FN 3310	3 MT 2414	4
MT 3375	3 MT 4332	3
Literature	3 MT 4396	3
	FN 3340	3
15		17

Third Year

Fall	Semester Spring Hours	Semester Hours
Fine Arts	3 Foreign Languages and Global Engagement	3
Foreign Languages and Global Engagement	3 PL 2301	3
EN 3342	3 Natural or Physical Sciences	3
MT 2317	3 MT 2103	1
MT 4333	3 MT 4334	3
	MT 4396	3
15		16

Fourth Year

Fall	Semester Spring Hours	Semester Hours
History	3 Advanced Theology	3
Elective	3 MT 3324	3
MT 4395	3 Elective	3

QM 3321	3 Elective	3
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		12
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Total Semester Hours 120		