Mathematics Major with Actuarial Concentration

B.S. in Mathematics-Actuarial Science Concentration - Curriculum Map 2016-2017 Catalog

Freshman			,
Fall	Cr.	Spring	Cr.
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
General Education History ¹	3	General Education Lab Science	4
General Education Lab Science	4	MA 122 Calculus II (General Education Math) ^{C1}	4
MA 121 Calculus I (General Education Math) ^{C1}		MA 241 Mathematical Computation and Modeling	3
Semester Total Credits	14	Semester Total Credits	14
Sophomore			
Fall	Cr.	Spring	Cr.
EC 201 Principles of Economics (Macro) (General Education Social Science) ^{b,c}	3	EC 202 Principles of Economics (Micro) ^{b,c}	3
EN 201 World Literature I (General Education Literature)	3	EN 202 World Literature II	3
MA 223 Calculus III ^{C1}	4	MA 224 Differential Equations ^{C1}	4
MA 306 Discrete Mathematics	3	MA 310 Linear Algebra	3
PS 211 University Physics I	4	PS 212 University Physics II	4
Semester Total Credits	17	Semester Total Credits	17
Junior			
Fall	Cr.	Spring	Cr.
General Education Arts & Humanities	3	MA 312 Statistical Methodology II ^{b,c}	3
MA 212 Finite Mathematics ^C	3	Mathematics Elective	3
MA 303 Advanced Calculus I or 309 Algebraic Structures ²	3	Mathematics Elective	3
MA 311 Statistical Methodology ^{b,c}	3	PH 303 Survey of Ethics or 350 Medical Ethics (General Education Ethics)	3
Free Elective	3	Free Elective	3
		MA 250 Communication in Mathematics	1
Semester Total Credits	15	Semester Total Credits	16
Senior			
Fall	Cr.	Spring	Cr.
MA 309 Algebraic Structures or 303 Advanced Calculus I ²	3	MA 321 Financial Mathematics ^C	3
MA 411 Senior Seminars	3	Mathematics Elective	3
Free Elective	_	Free Elective	3
Free Elective		Free Elective	3
Free Elective		Free Elective	3
Semester Total Credits	15	Semester Total Credits	15
Total Credits For This Major: 123			

MA 303 and MA 309 alternate as fall semester courses; both courses are required. For years these courses are offered, see Course Descriptions.

b Grade of B- or higher to meet the Society of Actuaires Validation by Educational Experience requirement.

c Grade of C or higher required.

c1 Grade of C or higher required in 3 of the 4 courses.