Mathematics Major with Actuarial Concentration

B.S. in Mathematics-Actuarial Science Concentration - Curriculum Map 2019-2020 Catalog

Course	Cr.Comp	Course	Cr.Comp
FRESHMAN			
Fall		**Spring**	
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
General Education History (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshur	3	General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/#goal4naturalsciencestext)	4
General Education Lab Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/#goal4naturalsciencestext)	4	MA 122 Calculus II (General Education Math) [c1]	4
MA 121 Calculus I (General Education Math) [c1]	4	MA 241 Mathematical Computation and Modeling	3
Fall Semester Total Cr.:	14	Spring Semester Total Cr.:	14
SOPHOMORE			
Fall		**Spring**	
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 [c2]	3	MA 310 Linear Algebra [c2]	3
PS 211 University Physics I	4	PS 212 University Physics II	4
Fall Semester Total Cr.:	17	Spring Semester Total Cr.:	17
JUNIOR			
Fall		**Spring**	
General Education Arts & Humanities (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshumanitiestext)	3	MA Elective (300-400 level)	3
General Education Leadership (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals/#goal8leadershiptext)	1-3	MA 312 Statistical Methodology II [b,c]	3
MA Elective	3	MA 419 Internship in Mathematics (or any MA course) [3]	3
MA 250 Communication in Mathematics	1	PH 303 Survey of Ethics (General Education Ethics) or 350 Medical Ethics	3
MA 303 Advanced Calculus I [2, c2] or 309 Algebraic Structures	3	Free Elective	3
MA 311 Statistical Methodology [b,c, c2]	3		
Free Elective	3		
Fall Semester Total Cr.:	17-19	Spring Semester Total Cr.:	15
SENIOR			
Fall		**Spring**	
MA 309 Algebraic Structures [2, c2] or 303 Advanced Calculus I	3	MA 321 Financial Mathematics (or any MA course) [c]	3
MA 411 Senior Seminars (General Education Capstone) [3, c2]	3	MA Elective (300-400 level)	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3

Fall Semester Total Cr.:	15	Spring Semester Total Cr.:		15
TOTAL CREDITS FOR THIS MAJOR: 124-126				

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

3   Students must take either MA 419 or MA 411 with an approved project on an actuarial science topic.

b   Grade of B- or higher to meet the Society of Actuaries 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.

c2   Grade of C or higher in at least 6 Math courses at the 300/400 level (other than MA 360)