

Mathematics Major with Actuarial Concentration

Print PDF Curriculum Map (http://catalog.norwich.edu/residentialprogramscatalog/mthact/mthact_1499877780986.pdf)

B.S. in Mathematics-Actuarial Science Concentration - Curriculum Map 2017-2018 Catalog

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Freshman			
Fall	Cr.	Spring	Cr.
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
General Education History (http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals) ¹	3	General Education Lab Science (http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals)	4
General Education Lab Science (http://catalog.norwich.edu/archives/2017-18/residentialprogramscatalog/generaleducationgoals)	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
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 ^{c2}	3	MA 310 Linear Algebra ^{c2}	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 303 Advanced Calculus I or 309 ^{2, c2}	3	MA 419 Internship in Mathematics or any MA course ³	3
MA 311 Statistical Methodology ^{b,c, c2}	3	Mathematics Elective	3
Free Elective	3	PH 303 Survey of Ethics or 350 (General Education Ethics)	3
Mathematics 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 ^{2, c2}	3	MA 321 Financial Mathematics or any MA course ^c	3
MA 411 Senior Seminars (General Education Capstone) ^{3, c2}	3	Mathematics Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Semester Total Credits	15	Semester Total Credits	15
Total Credits For This Major: 123			

¹ This may be any history course except HI 209.

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)