

# Mathematics Major

**B.S. in Mathematics - Curriculum Map 2019-2020**  
**Catalog**

Print as PDF Curriculum Map (<http://catalog.norwich.edu/residentialprogramscatalog/math/Math.pdf>)

Course	Cr. Comp.	Course	Cr. Comp.
<b>FRESHMAN</b>			
<b>Fall</b>		<b>Spring</b>	
General Education Lab Science ( <a href="http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal4naturalsciencetext">http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal4naturalsciencetext</a> )	4	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	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
General Education Social Science ( <a href="http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal5text">http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal5text</a> )	3	General Education Lab Science ( <a href="http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal4naturalsciencetext">http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal4naturalsciencetext</a> )	4
Fall Semester Total Cr.:	14	Spring Semester Total Cr.:	14
<b>SOPHOMORE</b>			
<b>Fall</b>		<b>Spring</b>	
EN 201 World Literature I (General Education Literature)	3	EN 202 World Literature II	3
MA 223 Calculus III <sup>c1</sup>	4	MA 224 Differential Equations <sup>c1</sup>	4
MA 306 Discrete Mathematics <sup>c2</sup>	3	MA 310 Linear Algebra <sup>c2</sup>	3
PS 211 University Physics I	4	PS 212 University Physics II	4
Free Elective	3	General Education Arts & Humanities/History ( <a href="http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshumanitiestext">http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshumanitiestext</a> )	3
Fall Semester Total Cr.:	17	Spring Semester Total Cr.:	17
<b>JUNIOR</b>			
<b>Fall</b>		<b>Spring</b>	
General Education Arts & Humanities/History ( <a href="http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshumanitiestext">http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal3humanexpressioninliteraturehistoryartshumanitiestext</a> )	3	MA Elective (300-400 level) <sup>c2</sup>	3
General Education Leadership ( <a href="http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal8leadershiptext">http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals/#goal8leadershiptext</a> )	1-3	MA Elective (300-400 level) <sup>c2</sup>	3
MA 250 Communication in Mathematics	1	MA 304 Advanced Calculus II <sup>2</sup> or 312 Statistical Methodology II	3
MA 303 Advanced Calculus I <sup>1, c2</sup>	3	PH 303 Survey of Ethics (General Education Ethics) or 350 Medical Ethics	3
MA 311 Statistical Methodology <sup>c2</sup>	3	Free Elective <sup>sa</sup>	3
Free Elective <sup>sa</sup>	3		
Free Elective <sup>sa</sup>	3		
Fall Semester Total Cr.:	17-19	Spring Semester Total Cr.:	15
<b>SENIOR</b>			
<b>Fall</b>		<b>Spring</b>	
MA 309 Algebraic Structures <sup>1, c2</sup> or 303 Advanced Calculus I	3	MA Elective (300-400 level) <sup>c2</sup>	3

MA 411 Senior Seminars (General Education Capstone) <sup>c2</sup>	3	MA Elective (300-400 level) <sup>c2</sup>	3
Free Elective <sup>sa</sup>	3	Free Elective <sup>sa</sup>	3
Free Elective <sup>sa</sup>	3	Free Elective <sup>sa</sup>	3
Free Elective <sup>sa</sup>	3	Free Elective <sup>sa</sup>	3
Fall Semester Total Cr.:	15	Spring Semester Total Cr.:	15
TOTAL CREDITS FOR THIS MAJOR: 124-126			

- 1 MA 303 and MA 309 alternate as fall semester courses; both courses are required. For years these courses are offered, see Course Descriptions.
- 2 MA 304 and MA 312 alternate as spring semester courses; one of the two courses is 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)
- SA 15 credits of Free Electives may be taken during a Study Abroad semester.