

# Chemistry Major

Print PDF Curriculum Map ([http://catalog.norwich.edu/residentialprogramscatalog/currmaps/chem/chem\\_1472073537868.pdf](http://catalog.norwich.edu/residentialprogramscatalog/currmaps/chem/chem_1472073537868.pdf))

## B.S. in Chemistry - Curriculum Map 2017-20187 Catalog

<b>Freshman</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
CH 103 General Chemistry I (General Education Lab Science)	4 CH 104 General Chemistry II (General Education Lab Science)	4
EN 101 Composition and Literature I	3 EN 102 Composition and Literature II	3
MA 121 Calculus I (General Education Math)	4 MA 122 Calculus II (General Education Math)	4
General Education Arts & Humanities ( <a href="http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals">http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals</a> )	3 Free Elective OR MA 241 Mathematical Computation & Modeling <sup>1</sup>	3
Semester Total Credits	14 Semester Total Credits	14
<b>Sophomore</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
CH 225 Organic Chemistry I <sup>4</sup>	4 CH 226 Organic Chemistry II <sup>4</sup>	4
CH 214 Communication in Chemistry (or in 3rd year) <sup>4</sup>	1-0 EN 202 World Literature II	3
BI 101 Principles of Biology I	4 MA 224 Differential Equations	4
EN 201 World Literature I (General Education Literature) <sup>2</sup>	3 PS 212 University Physics II	4
PS 211 University Physics I	4	
Semester Total Credits	16-15 Semester Total Credits	15
<b>Junior</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
CH 204 Quantitative Analysis (or CH 324 Biochemistry I)	4 CH 314 Instrumental Methods ( or Free Elective)	3
CH 214 Communication in Chemistry (or in 2nd year)	0-1 CH 315 Analysis Laboratory (taken with CH 314)	1-0
CH 327 Physical Chemistry I (or Math/Science elective)	3 CH 328 Physical Chemistry II (or Free Elective)	3
CH 337 Physical Chemistry Laboratory I (taken with CH 327)	1-0 CH 338 Physical Chemistry Laboratory II (taken with CH 328)	1-0
General Education Social Science ( <a href="http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals">http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals</a> )	3 MA 241 Mathematical Computation and Modeling ( or Free elective) <sup>1</sup>	3
General Education History ( <a href="http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals">http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals</a> )	3 Math/ Science elective (or CH 438 Advanced Inorganic)	3
Free Elective	3 General Education Ethics ( <a href="http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals">http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals</a> )	3
Semester Total Credits	17 Semester Total Credits	17-15
<b>Senior</b>		
<b>Fall</b>	<b>Cr. Spring</b>	<b>Cr.</b>
CH 413 Chemistry Seminar (Capstone)	1 CH 422 Chemical Synthesis and Examination II (Capstone)	3
CH 421 Chemical Synthesis and Examination I	3 CH 438 Advanced Inorganic Chemistry (or Math/Science Elective)	3
CH 324 Biochemistry I (or CH 204 Quantitative Analysis)	4 Free Elective (or CH 314/CH315 Instrumental Analysis)	3-4
Math/Science elective (or CH 327/CH 337 Physical Chemistry I)	3-4 Free Elective (or CH 328/CH 338 Physical Chemistry II)	3-4
Free Elective	3 Free Elective	3
Semester Total Credits	14-15 Semester Total Credits	15-17
Total Credits For This Major: 122		

<sup>1</sup> MA 241 may be substituted for EG 110

<sup>2</sup> EN 112 or EN 204 may be substituted for one semester of EN 201 - EN 202.