

Chemistry Major

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B.S. in Chemistry - Curriculum Map 2016-2017 Catalog

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Freshman			
Fall	Cr.	Spring	Cr.
CH 103 General Chemistry I (General Education Lab Science)	4	CH 104 General Chemistry II (General Education Lab Science)	4
MA 121 Calculus I (General Education Math)	4	MA 122 Calculus II (General Education Math)	4
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
Arts and Humanities (General Education)	3	MA 241 Mathematical Computation and Modeling ¹	3
Semester Total Credits	14	Semester Total Credits	14
Sophomore			
Fall	Cr.	Spring	Cr.
CH 225 Organic Chemistry I or 327 Physical Chemistry I (and CH 337 Physical Chemistry Laboratory I) ⁴	4	CH 226 Organic Chemistry II or 328 Physical Chemistry II (and CH 338 Physical Chemistry Laboratory II) ⁴	4
EN 201 World Literature I (General Education Literature) ²	3	EN 202 World Literature II	3
PS 211 University Physics I	4	PS 212 University Physics II	4
CH 214 Communication in Chemistry (or in 3rd year) ⁴	1-0	MA 224 Differential Equations	4
BI 101 Principles of Biology I	4		
Semester Total Credits	16-15	Semester Total Credits	15
Junior			
Fall	Cr.	Spring	Cr.
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	1-0	CH 338 Physical Chemistry Laboratory II	1-0
Social Science (General education)	3	Math/ Science elective (or CH 438 Advanced Inorganic)	3
History (General Education)	3	PH Ethics (General Education)	3
Free Elective	3	Free Elective	3
Semester Total Credits	17	Semester Total Credits	17-15
Senior			
Fall	Cr.	Spring	Cr.
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			

¹ MA 241 may be substituted for EG 110

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