

CHEMISTRY COMPREHENSIVE MAJOR: GENERAL CHEMISTRY EMPHASIS

Program Requirements

A minimum of 60 credits is required including the 26-credit Chemistry Nucleus:

Code	Title	Credits
Chemistry Nucleus		
CHEM 111	General Chemistry I (GT-SC2)	3
CHEM 112	General Chemistry Laboratory I (GT-SC1)	1
CHEM 113	General Chemistry II	3
CHEM 114	General Chemistry Laboratory II	1
CHEM 302	Chemical Information Literacy and Communication	3
CHEM 306	Analytical Chemistry (with laboratory)	4
CHEM 331	Organic Chemistry I	3
CHEM 332	Organic Chemistry II	3
CHEM 334	Organic Chemistry Laboratory I	1
CHEM 335	Organic Chemistry Laboratory II	1
CHEM 451	Physical Chemistry I	3
Total Credits		26

And the following:

Code	Title	Credits
CHEM 406	Instrumental Analysis (with laboratory)	4
CHEM 452	Physical Chemistry II	3
CHEM 454	Physical Chemistry Laboratory	2
CHEM 461	Advanced Inorganic Chemistry	3
CHEM 494	Research Problem in Chemistry	2-4
Required supporting courses		
MATH 151	Calculus I (GT-MA1)	4
MATH 251	Calculus II	4
MATH 252	Calculus III	4
PHYS 190 & PHYS 185	General Physics I (GT-SC2) and Laboratory Physics I (GT-SC1)	4
PHYS 191 & PHYS 186	General Physics II (GT-SC2) and Laboratory Physics II (GT-SC1)	4
Total Credits		34-36

Course	Title	Credits
Year One		
Fall		
CHEM 111	General Chemistry I (GT-SC2)	3
CHEM 112	General Chemistry Laboratory I (GT-SC1)	1
ENG 102	Writing and Rhetoric I (GT-CO1)	3
HWTR 100	First Year Seminar	1
MATH 140	College Algebra (GT-MA1)	3
Social Science GE		3
Credits		14
Spring		
Arts & Humanities GE		3
CHEM 113	General Chemistry II	3

CHEM 114	General Chemistry Laboratory II	1
MATH 141	Precalculus (GT-MA1)	4
Social Science GE		3
Credits		14

Year Two

Fall		
Arts & Humanities GE		3
ENG 103	Writing and Rhetoric II (GT-CO2)	3
CHEM 331	Organic Chemistry I	3
CHEM 334	Organic Chemistry Laboratory I	1
MATH 151	Calculus I (GT-MA1)	4
Credits		14

Spring

Arts & Humanities GE		3
CHEM 302	Chemical Information Literacy and Communication	3
CHEM 332	Organic Chemistry II	3
CHEM 335	Organic Chemistry Laboratory II	1
MATH 251	Calculus II	4
Gen Ed	Social Sciences	3
Credits		17

Year Three

Fall		
CHEM 306	Analytical Chemistry (with laboratory)	4
CHEM 461	Advanced Inorganic Chemistry	3
PHYS 190	General Physics I (GT-SC2)	3
PHYS 185	Laboratory Physics I (GT-SC1)	1
Elective	Elective	6
Credits		17

Spring

CHEM 406	Instrumental Analysis (with laboratory)	4
MATH 252	Calculus III	4
PHYS 191	General Physics II (GT-SC2)	3
PHYS 186	Laboratory Physics II (GT-SC1)	1
Elective	Elective	3
Credits		15

Year Four

Fall		
CHEM 451	Physical Chemistry I	3
CHEM 461	Advanced Inorganic Chemistry	3
Elective	Elective	9
Credits		15

Spring

CHEM 452	Physical Chemistry II	3
CHEM 454	Physical Chemistry Laboratory	2
CHEM 494	Research Problem in Chemistry	2
Elective	Elective	7
Credits		14
Total Credits		120