

BIOCHEMISTRY

Requirements

List of Required Chemistry Courses

Code	Title	Hours
General Chemistry (12 credits):		
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Lab	1
CHEM 113	General Chemistry II	3
CHEM 113L	General Chemistry II Laboratory	1
CHEM 115	General Chemistry III	3
CHEM 115L	General Chemistry III Laboratory	1
Organic Chemistry (12 credits):		
CHEM 251	Organic Chemistry I	3
CHEM 251L	Organic Chemistry I Laboratory	1
CHEM 252	Organic Chemistry II	3
CHEM 252L	Organic Chemistry II Laboratory	1
CHEM 253	Organic Chemistry III	3
CHEM 253L	Organic Chemistry III Laboratory	1
Analytical Chemistry (12 credits):		
CHEM 225	Analytical Chemistry	3
CHEM 225L	Analytical Chemistry Laboratory	1
CHEM 326	Bioanalytical Chemistry	4
CHEM 326L	Bioanalytical Chemistry Lab	0
CHEM 327	Advanced Analytical Chemistry	4
CHEM 327L	Analytical Chemistry III Lab	0
Physical Chemistry (12 credits):		
CHEM 361	Physical Chemistry I	4
CHEM 361L	Physical Chemistry Lab I	0
CHEM 362	Physical Chemistry II	4
CHEM 362L	Physical Chemistry II Lab	0
CHEM 463	Quantum Chemistry & Molecular Spectroscopy	4
Inorganic Chemistry (4 credits):		
CHEM 441	Inorganic Chemistry I	4
Biochemistry (13 credits):		
CHEM 330	Biochemistry I	4
CHEM 331	Biochemistry II	4
CHEM 430	Advanced Biochemistry	4
CHEM 433	Biochemistry Laboratory	1
Research (11 credits):		
CHEM 291	Introduction to Chemical Research	3
CHEM 395	Chemistry Seminar	0
CHEM 490	Chemical Research	2
CHEM 491	Senior Thesis	1
CHEM 495	Chemistry Seminar	0
CHEM 496	Chemistry Seminar	0
CHEM 497	Senior Presentation	1
Career Preparation (1 credit):		
CHEM 200	Career Preparation	1

Electives (11 credits):	11
Total Hours	84

Summary of Minimum Graduation Requirements

Course or Areas	Required	Elective	Total
Chemistry	77	11	88
Physics	12	0	12
Mathematics	19	0	19
Biology	16	0	16
Humanities, Social Sciences, and the Arts	8	28	36
Math/Science Elective	0	4	4
Electives	0	16	16
Foundations for Rose-Hulman Success	1	0	1
Total	133	59	192