CHEMISTRY B.A.

The courses required for the B.A. degree provide a less extensive training in chemistry than do the courses required for the American Chemical Society certified B.S. degree. This is to allow the student to supplement his or her program with courses that meet his or her specific needs. Thus, this degree provides the core of traditional preparation in chemistry together with latitude for combination with an interdisciplinary field or the Teacher Education Program. It is strongly advised that students using this degree obtain faculty advice in planning their program.

Bachelor of Arts - Chemistry

General Education Requirements

Information regarding these requirements can be found in the General Education Section (http://catalog.umt.edu/academics/general-education-requirements/) of the catalog.

Summary

Code	Title		Hours
Lower-Divisio		45	
General Ch	emistry		
Organic Ch			
Physics			
Mathemati	cs		
Computer S	Science		
Upper-Division Core Courses			16
Analytical (Chemistry		
Physical Cl	nemistry		
Advanced Ele	ctives		15
Total Hours			76

Degree Specific Credits: 76

Required Cumulative GPA: 2.0

Lower-Division Core Courses

General Chemistry				
Code	Title	Hours		
Complete all of t	he following courses:			
CHMY 141N	College Chemistry I	5		
& CHMY 142N	and College Chemistry I Lab			
CHMY 143N	College Chemistry II	5		
& CHMY 144N	and College Chemistry II Lab			
Total Hours		10		
Minimum Requir	ed Grade: C-			
	A			

Organic ChemistryCodeTitleHoursComplete all of the following courses:CHMY 221Organic Chemistry ICHMY 221Organic Chemistry I5& CHMY 222and Organic Chemistry I Lab

CHMY 223 & CHMY 224	Organic Chemistry II and Organic Chemistry II Lab	5
Total Hours		10
Minimum Require	ed Grade: C-	
Physics		
Code	Title	Hours
	he following courses:	-
PHSX 215N & PHSX 216N	Fundamentals of Physics with Calculus I and Physics Laboratory I with Calculus	5
PHSX 217N & PHSX 218N	Fundamentals of Physics with Calculus II and Physics Laboratory II with Calculus	5
Total Hours		10
Minimum Require	ed Grade: C-	
Mathematics		
Code	Title	Hours
Complete all of t	he following courses:	
M 171	Calculus I	4
M 172	Calculus II	4
M 273	Multivariable Calculus	4
Total Hours		12
Minimum Require	ed Grade: C-	
Computer Scien	ice	
Code	Title	Hours
Complete the fol	lowing course:	
CSCI 125	Computation in the Sciences	3
Minimum Require	ed Grade: C-	
Upper-Divisio	on Core Courses	
Analytical Chen	nistry	
Code	Title	Hours
Complete all of t	he following courses:	
CHMY 311	Analytical Chemistry-Quantitative Analysis	4
CHMY 421	Advanced Instrument Analysis	4
Total Hours		8
Minimum Require	ed Grade: C-	
Physical Chemi	s try Title	Hours
Complete all of t	he following courses:	
СНМҮ 371	Physical Chemistry-Quantum Chemistry & Spectroscopy	4
CHMY 373	Physical Chemistry-Kinetics & Thermodynamics	4
Total Hours		8
Minimum Require	ed Grade: C-	

Advanced College Writing Requirement

Rule: To complete the Advanced College Writing Requirement, Biochemistry students may take the following courses or any other standalone advanced writing course.

Code	Title	Hours
BCH 482	Advanced Biochemistry II	3
BCH 486	Biochemistry Research Lab	3

Minimum Required Grade: C-

Advanced Electives

CodeTitleHoursComplete 9 credits of advanced electives in Chemistry or15Biochemistry approved by the Chemistry adviser and 6 credits6of advanced electives at the discretion of the student. 15 total15credits required.15

Minimum Required Grade: C-