

Bachelor of Science 2021-22

Chemistry Major, Biochemistry Emphasis Major Codes CH02-07

CIP Code: 400501

Cr Hrs

General Education CORE 42 Requirements 42*		32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civic Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160)	
Area 4	Mathematics (MATH 150)	
Area 5A	Humanities (Mod. Lang. for 3)	3
Area 5B	Fine Arts	3
Area 5C	Global Competencies (Mod. Lang.)	
Area 5D	Health and Wellness	2
UE 100	First Year Experience**	1
Chemistry Requirements		38
CHEM 140	General Chemistry I***	3
CHEM 141	General Chemistry I Lab***	2
CHEM 142	General Chemistry II	5
CHEM 201	Analytical Chemistry	5
CHEM 301	Organic Chemistry I	5
CHEM 302	Organic Chemistry II	5
CHEM 350	Biochemistry	3
CHEM 352	Metabolic Biochemistry	3
CHEM 355	Biochemical Techniques	2
CHEM 400	Elementary Physical Chemistry	4
CHEM 460	Chemistry Capstone	1
Supporting Requirements		32
BIO 108	Principles of Biology I***	3
BIO 109	Principles of Biology I Lab***	1
BIO 111	Principles of Biology II	4
BIO 210	Molecular Cell Biology***	4
BIO 305	Genetics	4
BIO 464	Advanced Cell Biology	3
PHYS 160	Elementary College Physics I***	4
PHYS 162	Elementary College Physics II	4
MATH 150	Calculus & Analytic Geometry I***	5
Electives		17
Total Hours	Must include at 39 upper division (300-400) hrs	120

*CHEM 140 and BIO 108/109 satisfy CORE 42 area 3A&B (7 hours) and math requirements satisfy CORE 42 area 4 (3 hours).

**Degree Requirement H, may also be met by HNRS 101 (2 credit hours)

***See Prerequisites

****Suggested Electives (CHEM 422, 427,431,450,491,497, BIO 231,301

CH02 BS Chemistry Biochemistry

CH06 BS Chemistry Pre-dental

CH03 BS Chemistry Pre-medical

CH07 BS Chemistry Pre-optometry

CH04 BS Chemistry Pre-pharmacy

CH05 BS Chemistry Pre-veterinarian

****Suggested Electives for CH02: (CHEM 422, CHEM 427, CHEM 431, CHEM 450, CHEM 497, MA

****Suggested Electives for CH03, CH04, **CH06**, CH07: (CHEM 422, CHEM 427, CHEM 431, CHEM

****Suggested Electives for **CH06**: (CHEM 422, CHEM 427, CHEM 431, CHEM 450, CHEM 497, BIC