

Bachelor of Science 2024-25**Chemistry Major, Biochemistry Emphasis****Major Codes CH02****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 151 or PHYS 160)	
Area 3B	Natural science With Lab (PHYS 160 or CHEM 151)	
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	University Experience**	1
Chemistry Requirements		47
CHEM 151	General Chemistry I	5
CHEM 152	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 422	Advanced Inorganic Chemistry	3
CHEM 427	Instrumental Analysis	5
CHEM 460	Chemistry Capstone	1
CHEM 497	Research in Chemistry	1
Supporting Requirements		35-36
BIO 110	Principles of Biology I	4
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
Choose one: (MATH 150 or MATH 310)		3-4
MATH 250	Calculus & Analytic Geometry II*** (4)	
MATH 310	Elementary Statistics (3)	
Electives		4-5
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, BIO 101 or IET 105

***See Prerequisites

****Suggested Electives (CHEM 431,450,497, BIO 231, MATH 250, MATH 310 or BIO 390)