

Bachelor of Science 2021-22**Chemistry Major Professional Emphasis****Major Code CH00****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	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	First Year Experience**	1
Chemistry Requirements		45-47
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 I	3
CHEM 400	Elementary Physical Chemistry	4
CHEM 402	Physical Chemistry II	4
CHEM 422	Advanced Inorganic Chemistry	3
CHEM 497	Research in Chemistry	2
Select one of the following:		3-5
CHEM 352	Biochemistry II (3)	
CHEM 427	Instrumental Analysis (5)	
CHEM 450	Medicinal Chemistry (3)	
CHEM 460	Chemistry Capstone	1
Supporting Requirements		18
PHYS 270	General Physics I***	4
PHYS 290	General Physics II***	4
PHYS 291	General Physics II Lab	1
MATH 150	Calculus with Analytic Geometry I***	5
MATH 250	Calculus with Analytic Geometry II	4
Electives		22-24
Total Hours	Must include at 39 upper division (300-400) hrs	120

*CHEM 140 and PHYS 270 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 427, CHEM 431, MATH 260, MATH 322, PHYS 341, PHYS 372)