<u>CHEMISTRY</u>

Bismarck State College (AS) and University of Mary

Freshman:	Fall		UMary Equivalent
CHEM 121/121L	General Chemistry I/Lab (Math/Sci/Tech)	5	CHE 111/L
ENGL 110	College Comp I (Comm)	3	ENG 111
MAT 165	Calculus I (or needed pre-req) (Math/Sci/Tech)	4	MAT 209
PHIL 210	Ethics (Arts & Humanities Elective)	3	PHI 208
BSC	Enrichment Elective	2	Elective
	Fall Credits	17	
	Spring		
CHEM 122/122L	General Chemistry II/Lab (Math/Sci/Tech)	5	CHE 112/L
MAT 166	Calculus II (Math/Sci/Tech)	4	MAT 210
COMM 110	Fundamentals of Public Speaking (Comm)	3	COM 110
ENGL 120	College Composition II (Comm)	3	ENG 121
Elective	Social & Behavioral Science Elective	3	Core Elective
	Spring Credits	18	
	Total Freshman Credits	35	
Sophomore:	Fall		
CHEM 241/L	Organic Chemistry I/Lab	5	CHE 217/L
PHYS 251/L	University Physics I/Lab (Math/Sci/Tech)	5	PHY 203
Elective	Arts & Humanities Elective	3	Core Elective
Elective	Social and Behavioral Science Elective	3	Core Elective
	Fall Credits	16	
	Spring		
CHEM 242/L	Organic Chemistry II/Lab	5	CHE 318/L (LL)
PHYS 252/L	University Physics II/Lab (Math/Sci/Tech)	5	PHY 304 (LL)
Elective	Elective (Diversity elective if not previously completed)	3	Elective
	Spring Credits	13	
	Total Sophomore Credits	29	
	Total BSC Credits	62	(62→UMary)
Junior:	Fall		
HUM 322	Transfer Seminar	1	
CHE 230/Lab	Analytical Chemistry I/Lab	4	
CTH 234	Benedict: Yesterday and Today	3	
Electives	300/400 Level Elective Courses	6	
	Fall Credits	14	
	Spring		
CHE 310/L	Biochemistry I/Lab	4	
MAT 204	Applied Statistics ¹	4	
CHE 450	Physical Chemistry/L ^{1,3}	4	
Elective	300/400 Level Elective Course	3	
Elective	Elective Course	3	
	Spring Credits	18	
	Total Junior Credits	32	
<u></u> _			

Senior:	Fall		
CHE 340	Instrumental Analysis/L	4	
CHE 312	Biochemistry II ⁴	4	
CHE 329	Lab Practicum	1	
CHE 429	Safety in the Chemistry Laboratory	1	
Electives	300/400 Elective Courses ⁵	6	
	Fall Credits	16	
	Spring		
CHE 417	Advanced Inorganic Chemistry/L ²	4	
CHE 326	Environmental Chemistry/L ⁴	4	
CHE 490	Senior Seminar	2	
Electives	Elective Courses ⁵	6	
HUM 499	Senior Competences Assessment	0	
	Spring Credits	16	
	Total Senior Credits	32	
	Total UMary Credits	64	
	Total Bachelor's Degree Credits	126	

Notes:

- ¹ Applied Statistics (MAT 204) can also be taken during Senior Year (Spring Semester).
- ² Physical Chemistry/L (CHE 450/L) and Advanced Inorganic Chemistry (CHE 417) can be interchanged depending on the year they are offered.
- ³ Physical Chemistry/L (CHE 450/L) is cross–listed as Thermodynamics (EME 341). EME 341 is offered in the Fall.
- ⁴ Students may take either Biochemistry II (CHE 312) or Environmental Chemistry (CHE 326).