



MARYVILLE
UNIVERSITY

BIOCHEMISTRY

Minimum of **120** credit hours required for a Bachelor of Arts degree.
Last **30** credit hours must be from Maryville University

NAME: _____ REVIEWER: _____ DATE: _____

I. MCORE (36 Hours)	Credits	SEM/YR	Grade	Notes
A. Social Discovery (6)				
CORE 101: Discovering Community	3			
Student Choice	3			
CORE 401: Senior Capstone				In Major: CHEM 401, 498, 499
B. Civic Discovery (6)				
CORE 201: Discovering the Nation	3			
Student Choice	3			
C. Cultural Discovery (6)				
CORE 301: Discovering the World	3			
Student Choice	3			
D. Creative Discovery (9)				
COMP 104: Writing Across the Disciplines II	3			
Student Choice	3			
Student Choice	3			
F. Scientific Discovery (9)				
CORE 102: Everyday Data	3			
Student Choice	3			
Student Choice	3			
II. Major Requirements (84 Hours)	Credits	SEM/YR	Grade	Notes
COMP 101 Writing Across the Disciplines I	3			
MATH 151 Calculus I	4			
MATH 152 Calculus II	4			
PHYS 153 Calculus-Based Physics I	4			
PHYS 154 Calculus-Based Physics II	4			
Elective	4			
Elective	3			
Elective	3			
Chemistry Courses				
CHEM 103 General Chemistry I	4			
CHEM 104 General Chemistry II	4			
CHEM 203 Organic Chemistry I	4			
CHEM 204 Organic Chemistry II	4			
CHEM 320 Biochemistry	4			
CHEM 321 Biochemistry II	3			
CHEM 431	3			
Two from: CHEM 301, 353, 410, or 432	6			
CHEM 401, 498, or 499	3			Capstone
Biology Courses				
BIOL 117 General Biology I	4			
BIOL 118 General Biology II	4			
BIOL 260 General Genetics	4			
BIOL 351 Cell Biology	4			
BIOL 316 or 390	4			
Degree Total	120			

SAMPLE COURSE PLAN

This is an example of the sequence of course work to complete this major.

ODD YEAR FALL			
Fall of Freshman Year (Odd)	Credits	Spring of Freshman Year (Even)	Credits
CORE 101: Discovering Community	3	CORE 201: Discovering the Nation	3
COMP 101 Writing Across the Disciplines I	3	COMP 104: Writing Across the Disciplines II	3
CHEM 103 General Chemistry I	4	CHEM 104 General Chemistry II	4
BIOL 117 General Biology I	4	BIOL 118 General Biology II	4
MATH1 Calculus I	4	MATH2 Calculus II	4
Total	18	Total	18
Fall of Sophomore Year (Even)	Credits	Spring of Sophomore Year (Odd)	Credits
CORE 301: Discovering the World	3	CORE 102: Everyday Data	3
CHEM 203 Organic Chemistry I	4	CHEM 204 Organic Chemistry II	4
PHYS3 Calculus-Based Physics I	4	PHYS4 Calculus-Based Physics II	4
BIOL 260 General Genetics	4	Elective	3
Total	15	Total	14
Fall of Junior Year (Odd)	Credits	Spring of Junior Year (Even)	Credits
CHEM 320 Biochemistry	4	CHEM 321 Biochemistry II	3
CHEM 431	3	Chemistry Elective / Elective	3
BIOL 316 or 390	4	BIOL 351 Cell Biology	4
MCORE – Student Choice	3	MCORE – Student Choice	3
		MCORE – Student Choice	3
Total	14	Total	16
Fall of Senior Year (Even)	Credits	Spring of Senior Year (Odd)	Credits
MCORE – Student Choice	3	CORE 401: CHEM 401, 498, 499	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Chemistry Elective / Elective	3	MCORE – Student Choice	3
Chemistry Elective	3 or 4	Chemistry Elective / Elective	4
Total	12/13	Total	13

EVEN YEAR FALL			
Fall of Freshman Year (Even)	Credits	Spring of Freshman Year (Odd)	Credits
CORE 101: Discovering Community	3	CORE 201: Discovering the Nation	3
COMP 101 Writing Across the Disciplines I	3	COMP 104: Writing Across the Disciplines II	3
CHEM 103 General Chemistry I	4	CHEM 104 General Chemistry II	4
BIOL 117 General Biology I	4	BIOL 118 General Biology II	4
MATH1 Calculus I	4	MATH2 Calculus II	4
Total	18	Total	18
Fall of Sophomore Year (Odd)	Credits	Spring of Sophomore Year (Even)	Credits
CORE 301: Discovering the World	3	CORE 102: Everyday Data	3
CHEM 203 Organic Chemistry I	4	CHEM 204 Organic Chemistry II	4
PHYS3 Calculus-Based Physics I	4	PHYS4 Calculus-Based Physics II	4
BIOL 260 General Genetics	4	Elective	3
Total	15	Total	14
Fall of Junior Year (Even)	Credits	Spring of Junior Year (Odd)	Credits
CHEM 320 Biochemistry	4	CHEM 321 Biochemistry II	3
Chemistry Elective	3 or 4	Chemistry Elective / Elective	3
BIOL 316 or 390	4	BIOL 351 Cell Biology	4
MCORE – Student Choice	3	MCORE – Student Choice	3
		MCORE – Student Choice	3
Total	14/15	Total	16
Fall of Senior Year (Odd)	Credits	Spring of Senior Year (Even)	Credits
MCORE – Student Choice	3	CORE 401: CHEM 401, 498, 499	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Chemistry Elective / Elective	3	MCORE – Student Choice	3
CHEM 431	3	Chemistry Elective / Elective	4
Total	12	Total	13

Two from: CHEM 301, 353, 410, or 432. Student choice Chemistry Courses: CHEM 301 – Offered Fall Even Year, CHEM 353 – Offered Every Fall, CHEM 410 – Offered Spring Odd Year (CHEM 353 Required), CHEM 432 – Offered Spring Even Year