MARYVILLE UNIVERSITY

CHEMISTRY

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 or 498
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 Credit Hours)	**Credits**			**Notes**
A. Other				
COMP 101 Writing Across the Disciplines I	3			
Elective	21			
B. Chemistry				
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 301 Inorganic Chemistry	3			
CHEM 320 Biochemistry	4			
CHEM 353 Quantitative Analysis	4			
CHEM 410 Instrumental Analysis	4			
CHEM 431 Physical Chemistry I	3			
CHEM 432 Physical Chemistry II	3			
CHEM 401 OR CHEM 498	3			Capstone
D. Other Course Requirements				
MATH 151 Calculus I	4			
MATH 152 Calculus II	4			
MATH 251 Calculus III	4			
PHYS 153 Calculus-Based Physics I	4			
PHYS 154 Calculus-Based Physics II	4			
Degree Total	**120**			

SAMPLE COURSE PLAN

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

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
MATH 151 Calculus I	4	MATH 152 Calculus II	4
MCORE – Student Choice	3	MCORE – Student Choice	3
Total	**17**	**Total**	**17**
Fall of Sophomore Year (Odd)	**Credits**	**Spring of Sophomore Year (Even)**	**Credits**
CORE 301: Discovering the World	3	MATH 251 Calculus III	4
CHEM 203 Organic Chemistry I	4	CHEM 204 Organic Chemistry II	4
PHYS 153 Calculus-Based Physics I	4	PHYS 154 Calculus-Based Physics II	4
CORE 102: Everyday Data	3	MCORE – Student Choice	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Total	**17**	**Total**	**18**
Fall of Junior Year (Even Year)	**Credits**	**Spring of Junior Year (Odd)**	**Credits**
CHEM 353 Quantitative Analysis	4	CHEM 410 Instrumental Analysis	4
CHEM 301 Inorganic Chemistry	3	MCORE – Student Choice	3
MCORE – Student Choice	3	Elective	3
Elective	3	Elective	3
Total	**13**	**Total**	**13**
Fall of Senior Year (Odd Year)	**Credits**	**Spring of Senior Year (Even)**	**Credits**
CHEM 320 Biochemistry	4	CORE 401: CHEM 401 or 498	3
CHEM 431 Physical Chemistry I	3	CHEM 432 Physical Chemistry II	3
Elective	3	Elective	3
Elective	3	Elective	3
Total	**13**	**Total**	**13**

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
MATH 151 Calculus I	4	MATH 152 Calculus II	4
MCORE – Student Choice	3	MCORE – Student Choice	3
Total	**14**	**Total**	**14**
Fall of Sophomore Year (Even)	**Credits**	**Spring of Sophomore Year (Odd)**	**Credits**
CORE 301: Discovering the World	3	MATH 251 Calculus III	4
CHEM 203 Organic Chemistry I	4	CHEM 204 Organic Chemistry II	4
PHYS 153 Calculus-Based Physics I	4	PHYS 154 Calculus-Based Physics II	4
CORE 102: Everyday Data	3	MCORE – Student Choice	3
MCORE – Student Choice	3	MCORE – Student Choice	3
Total	**17**	**Total**	**18**
Fall of Junior Year (Odd Year)	**Credits**	**Spring of Junior Year (Even)**	**Credits**
CHEM 320 Biochemistry	4	CHEM 432 Physical Chemistry II	3
CHEM 431 Physical Chemistry I	3	MCORE – Student Choice	3
MCORE – Student Choice	3	Elective	3
Elective	3	Elective	3
Total	**13**	**Total**	**13**
Fall of Senior Year (Even Year)	**Credits**	**Spring of Senior Year (Odd)**	**Credits**
CHEM 301 Inorganic Chemistry	3	CORE 401: CHEM 401 or 498	3
CHEM 353 Quantitative Analysis	4	CHEM 410 Instrumental Analysis	4
Elective	3	Elective	3
Elective	3	Elective	3
Total	**13**	**Total**	**13**

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

Revised: June 30, 2025