



MARYVILLE
UNIVERSITY

MEDICAL LABORATORY SCIENCES

Minimum of **140** credit hours required for a Bachelor of Science 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: BIOL 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 (102 Hours)	Credits	SEM/YR	Grade	Notes
A. Other (26 credits)				
COMP 101 Writing Across the Disciplines I	3			
CHEM 103 General Chemistry I	4			
CHEM 104 General Chemistry II	4			
MATH 151 (4) or MATH 125 (3)	4			
MATH 141 or SOSC 341 or BIOL 280	3			
CHEM 203 Organic Chemistry I	4			
CHEM 204 Organic Chemistry II	4			
B. Biology Core (57 credits)				
BIOL 111 Research Methods I	1			
BIOL 117 General Biology I	4			
BIOL 118 General Biology II	4			
BIOL 215 Microbiology	4			
BIOL 251 Cell Biology	4			
BIOL 260 General Genetics	4			
BIOL 499 – MLS Internship	36			
C. Specialized Science Courses (19 credits)				
BIOL 100, BIOL 115, BIOL 354, BIOL 394, BIOL 395, CHEM 320	19			
Degree Total	140			

SAMPLE COURSE PLAN

Below are examples of the sequence of course work to complete this major depending on the Fall start year.

ODD YEAR FALL			
Please note that this student plan is for the 3+1 program beginning in Fall of an ODD YEAR			
Fall of Freshman Year	Credits	Spring of Freshman Year	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
BIOL 117 General Biology I	4	BIOL 118 General Biology II	4
BIOL 111 Research Methods	1	MATH 125 OR MATH 151	3/4
CHEM 103 General Chemistry I	4	CHEM 104 General Chemistry II	4
BIOL 115 Anatomy and Physiology (can be taken online in summer)	4		
Total	19	Total	17/18
Fall of Sophomore Year	Credits	Spring of Sophomore Year	Credits
CORE 301: Discovering the World	3	BIOL 260 Genetics	4
BIOL 215 Microbiology	4	MATH 141 or SOSC 341 or BIOL 280	3
CHEM 203 Organic Chemistry I	4	CHEM 204 Organic Chemistry II	4
MCORE - Student Choice	3	MCORE - Student Choice	3
CORE 102: Everyday Data	3	BIOL 354 Immunology (requires BIOL 215)	3
Total	17	Total	17
Fall of Junior Year	Credits	Spring of Junior Year	Credits
BIOL 251 Cell Biology	4	BIOL 100 Intro to Clinical Laboratory Science	2
CHEM 320 Biochemistry	4	MCORE - Student Choice	3
BIOL 394 Advanced Physiology (required for 395)	3	MCORE - Student Choice	3
MCORE - Student Choice	3	BIOL 395 Pathophysiology (only offered in Spring of even years)	3
MCORE - Student Choice	3	MCORE - Student Choice	3
Total	17	Total	14
Fall of Senior Year	Credits	Spring of Senior Year	Credits
CORE 401: BIOL 499 MLS Internship	18	CORE 401: BIOL 499 MLS Internship	18
Total	18	Total	18

EVEN YEAR FALL			
Please note that this student plan is for the 3+1 program beginning in Fall of an ODD YEAR			
Fall of Freshman Year	Credits	Spring of Freshman Year	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
BIOL 117 General Biology I	4	BIOL 118 General Biology II	4
BIOL 111 Research Methods	1	MATH 125 OR MATH 151	4
CHEM 103 General Chemistry I	4	CHEM 104 General Chemistry II	4
BIOL 115 Anatomy and Physiology (can be taken online in summer)	4		
Total	19	Total	18
Fall of Sophomore Year	Credits	Spring of Sophomore Year	Credits
CORE 301: Discovering the World	3	BIOL 260 Genetics	4
BIOL 215 Microbiology	4	MATH 141 Statistics	3
CHEM 203 Organic Chemistry I	4	CHEM 203 Organic Chemistry II	4
MCORE - Student Choice	3	MCORE - Student Choice	3
BIOL 394 Advanced Physiology (required for 395)	3	BIOL 395 Pathophysiology (only offered in Spring of even years)	3
Total	17	Total	17
Fall of Junior Year	Credits	Spring of Junior Year	Credits
BIOL 251 Cell Biology	4	BIOL 100 Intro to Clinical Laboratory Science	2
CHEM 320 Biochemistry	4	MCORE - Student Choice	3
CORE 102: Everyday Data	3	MCORE - Student Choice	3
MCORE - Student Choice	3	BIOL 354 Immunology (requires BIOL 215)	3
MCORE - Student Choice	3	MCORE - Student Choice	3
Total	17	Total	14
Fall of Senior Year	Credits	Spring of Senior Year	Credits
CORE 401: BIOL 499	18	CORE 401: BIOL 499	18
Total	18	Total	18