

# BACHELOR OF SCIENCE IN BIOLOGY TO MASTER OF SCIENCE IN MEDICAL LABORATORY SCIENCE / 3 + 2 PROGRAM

**Total Credit Hours:** 120

**Major Credit Hours:** 79

Students enrolled in this program will be awarded a Bachelor of Science in Biology from Lewis University and a Master of Science in Medical Laboratory Science from Rush University. All catalog rules for the Bachelor of Science in Biology (<https://catalog.lewisu.edu/undergraduate/aviation-science-technology/biology/biology-bachelor-science/>) apply.

## Requirements Degree Requirements

**Concentration:** MLSC

Code	Title	Hours
<b>Core Courses</b>		
BIOL 11000	General Biology 1	4
BIOL 11100	General Biology 1 Lab	1
BIOL 11500	General Biology 2	4
BIOL 11600	General Biology 2 Lab	1
BIOL 22000	Genetics	4
BIOL 22100	Genetics Lab	1
BIOL 22400	General Microbiology	4
BIOL 22600	General Microbiology Lab	1
BIOL 32000	Biostatistics	3
BIOL 33500	Advanced Clinical Physiology	3
BIOL 33600	Case Studies in Human Physiology	1
BIOL 35500	Molecular Biochemistry with Clinical Correlates	3
BIOL 35600	Molecular Biochemistry Lab	1
BIOL 42200	Human Anatomy	3
BIOL 42300	Functional Human Anatomy Lab	1
CHEM 11000	General Chemistry 1	4
CHEM 11100	General Chemistry 1 Lab	1
CHEM 11500	General Chemistry 2	4
CHEM 11600	General Chemistry 2 Lab	1
MATH 20400	Calculus for the Life Sciences	4
	or MATH 20900 Calculus 1	
CHEM 23000	Organic Chemistry I	3
CHEM 22100	Organic Chemistry I Lab	1
CHEM 23500	Organic Chemistry 2	3
CHEM 22600	Organic Chemistry 2 Lab	1
PHYS 20000	College Physics 1	4
PHYS 20100	College Physics 1 Lab	1
<b>Journal Club</b>		

Select one of the following:

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BIOL 38000	Biochemistry Journal Club
BIOL 38100	Physiology Journal Club
BIOL 38200	Microbiology Journal Club
BIOL 38300	Ecology Journal Club
BIOL 38400	Genetics Journal Club
BIOL 38500	Biology Journal Club

**Total Hours**

**63**

Students admitted to the Medical Laboratory Science Program in this manner will be awarded a Bachelor of Science degree from Lewis University at the successful completion of the first semester at Rush University.

A minimum of 80 credit hours is required to earn the Master of Science in Medical Laboratory Science at Rush University. All courses taken during the first semester will be transferred back to Lewis University to meet the B.S. requirements.

Students must complete the first semester at Rush (Fall semester) in order to be awarded the B.S. degree from Lewis University. If they do not complete the first semester, they will need to return to Lewis to fulfill the baccalaureate requirements.

## Rush University Courses

Code	Title	Hours
<b>Fall Courses</b>		
MLS-504	Clinical Chemistry I	4
MLS-514	Hematology I	6
MLS-523	Clinical Immunology	3
MLS-526	Molecular Techniques	3
IPE-502	Interprofessional Patient Centered Teams	0
<b>Total Hours</b>		<b>16</b>

## Advanced Writing Requirement

The advanced writing requirement of the General Education curriculum is satisfied by successful completion of the curricula at Lewis University and Rush University.

## General Education courses

Consult the program Fact Sheet for the sequence of General Education courses.