

MEDICAL LABORATORY SCIENCES (B.S.) (3+1)

Students who wish to pursue a career in Medical Laboratory Sciences may pursue a B.S. in Medical Laboratory Sciences (3+1 program option). Students enrolled in this program complete the required coursework at Salve during their first 3 years, and subsequently complete a 15-month clinical program. Students can enroll in the B.S. in Medical Laboratory Sciences in their first year, or they can enroll as students in the B.S. Biology and transfer into the program during years 2 or 3.

Students apply for admission to the clinical program during the fall semester of their 3rd year. All students that have completed the required coursework and met the minimum 2.5 cumulative and math/science GPA requirements for entry into the clinical program are guaranteed an interview for clinical placement. However, entry into the clinical component of the program is competitive and relies on availability of internship openings in area hospitals.

If a student fails to enter or complete the clinical program, they can complete a B.S. in Biology within the 4-year time frame. These students may elect to apply to the B.S. in Medical Laboratory Sciences second degree program during their 4th year (4+1 program option (<https://catalog.salve.edu/undergraduate/academic-programs/biology/medical-technology-41-bs/>)).

Students complete a minimum of 120 credits to earn a bachelor's degree, including 41-44 credits of core courses and 93-94 credits (23 courses) in their major.

Code	Title	Credits
BIO-113	Biology I	4
BIO-114	Biology II	4
BIO-210	Microbiology	4
BIO-220	Cell Biology and Chemistry	4
BIO-253	Genetics: Classical, Molecular and Population	4
BIO-305	Human Anatomy	4
BIO-324	Fundamentals of Medical Laboratory Sciences	3
BIO-325	Human Physiology	4
BIO-471	Biology Seminar	3
CHM-113	General Chemistry I	4
CHM-114	General Chemistry II	4
CHM-205	Organic Chemistry I	4
CHM-206	Organic Chemistry II	4
BCH-403	Biochemistry	4
MTH-191 or MTH-195	Applied Calculus Calculus I	3-4
STA-173	Statistical Methods	3
Total Credits		60-61

Students complete the following 7 required courses (32 credits) at the Clinical Site:

Code	Title	Credits
MED-410	Clinical Microbiology	8
MED-420	Clinical Chemistry	8
MED-430	Immunohematology I	4

MED-440	Hematology & Coagulation	6
MED-460	Molecular Pathology	2
MED-470	Professional Topics in Clinical Laboratory Sciences	2
MED-480	Clinical Immunology	2
Total Credits		32

Upon completion of the clinical internship, the student receives a B.S. in Medical Laboratory Sciences and is eligible to sit for the American Society of Clinical Pathology national exam in order to become a registered Medical Laboratory Scientist.

Degree Plan for B.S. in Medical Laboratory Sciences (3+1)

Course	Title	Credits
First Year		
Fall		
UNV-101	University Seminar	3
FYT-101	First Year Studio	1
BIO-113	Biology I	4
CHM-113	General Chemistry I	4
MTH-191 or MTH-195	Applied Calculus or Calculus I	3-4
Credits		15-16
Spring		
UNV-102	University Seminar II	3
BIO-114	Biology II	4
CHM-114	General Chemistry II	4
STA-173	Statistical Methods	3
Social Science Core		3
Credits		17
Second Year		
Fall		
GST-098	Sophomore Studio ¹	1
BIO-210	Microbiology	4
CHM-205	Organic Chemistry I	4
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions ²	3
Foreign Language I Core		3
Literature Core		3
Credits		18
Spring		
BIO-220	Cell Biology and Chemistry	4
CHM-206	Organic Chemistry II	4
PHL-225	Quest for the Good Life ²	3
Foreign Language II Core		3
Visual & Performing Arts Core		3
Credits		17
Third Year		
Fall		
BIO-324	Fundamentals of Medical Laboratory Sciences	3
BIO-305	Human Anatomy	4
BCH-403	Biochemistry	4
History Core		3
Core Course in RTS or PHL		3
Credits		17
Spring		
BIO-253	Genetics: Classical, Molecular and Population	4
BIO-325	Human Physiology	4
BIO-471	Biology Seminar	3

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Social Science Core		3
	Credits	14
Fourth Year		
Summer		
MED-470	Professional Topics in Clinical Laboratory Sciences	2
	Credits	2
Fall		
MED-410	Clinical Microbiology	8
MED-430	Immunohematology I	4
MED-460	Molecular Pathology	2
MED-480	Clinical Immunology	2
	Credits	16
Spring		
MED-420	Clinical Chemistry	8
MED-440	Hematology & Coagulation	6
	Credits	14
	Total Credits	130-131

¹ This weekend workshop may be taken in either the fall or spring semester of sophomore year.

² One each semester.