

# BACHELOR OF SCIENCE IN MEDICAL LAB SCIENCE

## Overview

CIP: 51.1005.00

Admission to Medical Lab Science: Admission into the university follows all university guidelines and processes. Students will be admitted into the pre-Medical Laboratory Science program and will be fully admitted into the program in their junior year.

Criteria to be considered for admission into the MLSC program include:

1. Students must be fully admitted by TAMIU and must be declared a MLSC major
2. Completed all (or have no less than 3 SCH remaining) University Core Curriculum
3. Completed all MLSC foundational coursework requirements
4. Have a minimum cumulative 2.75 GPA (on a 0.0 - 4.0 scale)
5. Have a minimum combined science and math 2.75 GPA (on a 0.0 - 4.0 scale).

## Degree Requirements

Code	Title	Semester Credit Hours
<b>[University Core Curriculum] (<a href="https://catalog.tamiau.edu/appendix-a-core-curriculum-optional-course-information/">https://catalog.tamiau.edu/appendix-a-core-curriculum-optional-course-information/</a>)</b>		
Select 42 SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation"		42
<b>CLSC Additional Requirements</b>		
BIOL 2102	Anatomy & Physiology II-Lab	1
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I-Lab	1
CHEM 1412	General Chemistry II	4
CHEM 2423	Organic Chemistry I	4
MATH 1342	Introductory Statistics	3
MLSC 2301	Intro to Medical Lab Sci-WIN	3
MLSC 2310	Genetics and Molecular Diagn	3
MLSC 2110	Genetics & Molecular Diag. Lab	1
MLSC 2352	Pathophysiology	3
MLSC 2152	Pathophysiology Lab	1
<b>CLSC (After Admission)</b>		
MLSC 3351	Immunobiology- WIN	3
MLSC 3151	Immunobiology Lab	1
MLSC 3354	Clinical Chemistry I	3
MLSC 3154	Clinical Chemistry I Lab	1
MLSC 3357	Medical Bacteriology	3
MLSC 3257	Medical Bacteriology Lab	2
MLSC 3356	Hematology	3
MLSC 3156	Hematology Lab	1
MLSC 3362	Clinical Chemistry II	3

MLSC 3162	Clinical Chemistry II Lab	1
MLSC 3366	Infectious Diseases	3
MLSC 3266	Infectious Diseases Lab	2
MLSC 3268	Immunoematology	2
MLSC 3168	Immunoematology Lab	1
MLSC 4460	Transfusion Medicine I	4
MLSC 4461	Clinical Microbiology I	4
MLSC 4462	Clinical Biochemistry I	4
MLSC 4463	Clinical Hematology I	4
MLSC 4271	Clinical Microbiology II	2
MLSC 4272	Clinical Hematology II	2
MLSC 4273	Clinical Biochemistry II	2
MLSC 4274	Transfusion Medicine II	2
MLSC 4275	Clinical Lab Mgmt & Operations	2
MLSC 4280	MLS Seminar- WIN	2
<b>Total Semester Credit Hours</b>		<b>126</b>

## Four-Year Degree Plan

Following is a suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment; responsible for reviewing the **Program of Study Requirements**, meeting all course prerequisites, and **writing intensive course (WIN)** requirements for graduation. See Academic Regulations-Undergraduate online. (<https://catalog.tamiau.edu/undergraduate-information/academic-regulations/>)

### Freshman

Fall	Semester Credit Hours	
ENGL 1301	English Composition I	3
FYE 1201	Learning in a Global Context	2
MATH 1314	College Algebra	3
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I-Lab	1
BIOL 2301	Anatomy & Physiology I	3
BIOL 2101	Anatomy & Physiology I-Lab	1
<b>Semester Credit Hours</b>		<b>16</b>

### Spring

ENGL 1302	English Composition II	3
FYE 1302	Signature Course	3
MATH 1342	Introductory Statistics	3
CHEM 1412	General Chemistry II	4
BIOL 2302	Anatomy & Physiology II	3
BIOL 2102	Anatomy & Physiology II-Lab	1
<b>Semester Credit Hours</b>		<b>17</b>

### Sophomore

Fall	Semester Credit Hours	
PSCI 2305	American National Government	3
LEDR 2301	Foundations of Leadership	3
HIST 1301	The US to 1877	3
CHEM 2423	Organic Chemistry I	4



MLSC 2301	Intro to Medical Lab Sci-WIN	3
<b>Semester Credit Hours</b>		<b>16</b>

**Spring**

PSCI 2306	American State Government	3
PHIL 2306	Introduction to Ethics	3
HIST 1302	The US Since 1877	3
MLSC 2310	Genetics and Molecular Diagn	3
MLSC 2110	Genetics & Molecular Diag. Lab	1
MLSC 2352	Pathophysiology	3
MLSC 2152	Pathophysiology Lab	1
<b>Semester Credit Hours</b>		<b>17</b>

**Junior**

**Fall**

MLSC 3351	Immunobiology- WIN	3
MLSC 3151	Immunobiology Lab	1
MLSC 3354	Clinical Chemistry I	3
MLSC 3154	Clinical Chemistry I Lab	1
MLSC 3357	Medical Bacteriology	3
MLSC 3257	Medical Bacteriology Lab	2
Creative Arts		3
<b>Semester Credit Hours</b>		<b>16</b>

**Spring**

MLSC 3356	Hematology	3
MLSC 3156	Hematology Lab	1
MLSC 3362	Clinical Chemistry II	3
MLSC 3162	Clinical Chemistry II Lab	1
MLSC 3366	Infectious Diseases	3
MLSC 3266	Infectious Diseases Lab	2
MLSC 3268	Immunohematology	2
MLSC 3168	Immunohematology Lab	1
<b>Semester Credit Hours</b>		<b>16</b>

**Senior**

**Fall**

MLSC 4460	Transfusion Medicine I	4
MLSC 4461	Clinical Microbiology I	4
MLSC 4462	Clinical Biochemistry I	4
MLSC 4463	Clinical Hematology I	4
<b>Semester Credit Hours</b>		<b>16</b>

**Spring**

MLSC 4271	Clinical Microbiology II	2
MLSC 4272	Clinical Hematology II	2
MLSC 4273	Clinical Biochemistry II	2
MLSC 4274	Transfusion Medicine II	2
MLSC 4275	Clinical Lab Mgmt & Operations	2
MLSC 4280	MLS Seminar- WIN	2
<b>Semester Credit Hours</b>		<b>12</b>

<b>Total Semester Credit Hours</b>		<b>126</b>
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