



## PROGRAM OVERVIEW

Upon graduation, the Medical Laboratory Science (MLS) Certification program prepares students to become nationally registered medical laboratory scientists and work in clinical laboratory positions. Graduates are eligible to sit for the [ASCP national examination](#). The program includes six weeks of clinical rotations in the final semester of enrollment.

## APPLICATION REQUIREMENTS

### GPA of 2.50 or higher

A minimum 2.50 cumulative GPA is required in all coursework taken at any accredited institution.

### Prerequisite Courses

Before starting the professional program, all prerequisite courses or equivalents must be completed with a C- or higher.

### Online Application

The application is available [online](#) and must be completed and submitted with all required supplemental documents, if applicable. Application FAQ can be found [here](#).

*Although a personal interview will not be offered, applicants will be asked on the application to outline their knowledge of the profession and personal career goals. The program will give individual consideration in the admission assessment to courses taken and applicant experiences.*

## PREREQUISITE COURSES

*These courses must be completed before beginning professional coursework. Ohio State course numbers are shown below.*

**Math 1148 & 1149, or 1150 or higher**

**Biology 1113**

**Chemistry 1210**

**Chemistry 1220**

**Microbiology 4000.01**

**Statistics 1450**

**HTHRHSC 2500**

**Organic Chemistry Sequence (2 courses) \*\***

*Chemistry 2510 and BioChem 4511, or*

*BioPharm 3311 and 3312*

*\*\*Although completion of courses creates a stronger application, students may be admitted before completing these courses. Courses must be completed before the Autumn semester of the second year in the professional program.*

## APPLICATION DEADLINES

The Medical Laboratory Science program admits students once per year, with students beginning the program in the Autumn semester. The application deadline for Autumn 2024 is January 31, 2024. The professional program will begin on August 20, 2024.

## DEGREE REQUIREMENTS

The minimum hours to graduate from The Ohio State University with a Bachelor of Science in Health and Rehabilitation Sciences is 120 credit hours. The Medical Laboratory Science Certification program requires a minimum of 120 hours, not including HTHRHSC 1100. Some students may need to take one or more general elective courses to meet the minimum credit hours required for graduation. Students should reference their [degree audit](#) to ensure they are completing all required components of the degree, including general education, program prerequisites, and professional curriculum.

# Medical Laboratory Science

Certification Track (GEL)



THE OHIO STATE UNIVERSITY

SCHOOL OF HEALTH AND  
REHABILITATION SCIENCES

Autumn	Credits
HTHRHSC 1100	1
MATH 1150 or higher	5
Chemistry 1210	5
<a href="#">GE</a>	3
<a href="#">GE</a>	3
<b>Total</b>	<b>17</b>

Spring	Credits
English 1110.01	3
Biology 1113	4
Chemistry 1220	5
<a href="#">GE</a>	3
<b>Total</b>	<b>15</b>

## YEAR 2

Autumn	Credits
BioPharm 3311 or Chemistry 2510	3-4
Microbiology 4000.01	4
Statistics 1450	3
<a href="#">GE</a>	3
<a href="#">GE</a>	3
<b>Total</b>	<b>16-17</b>

Spring	Credits
BioPharm 3312 or BioChem 4511	3-4
HTHRHSC 2500	3
<a href="#">GE</a>	3
<a href="#">GE</a>	3
<b>Total</b>	<b>12-13</b>

### Begin Professional Coursework

## YEAR 3

Autumn	Credits
MLS 4400 Med Lab Environment Lecture	1
MLS 4405 Med Lab Environment Lab	1
MLS 5100 Microbiology I Lecture	3
MLS 5105 Microbiology I Lab	1
MLS 5050 Hematology Lecture	5
MLS 5055 Hematology Lab	2
MLS 4500 Phlebotomy Lecture	1
MLS 4505 Phlebotomy Lab	1
<b>Total</b>	<b>15</b>

Spring	Credits
MLS 5000 Microbiology II Lecture	3
MLS 5005 Microbiology II Lab	2
MLS 5150 Microscopy Lecture	2
MLS 5155 Microscopy Lab	1
MLS 5200 Immunology Lecture	3
MLS 5205 Immunology Lab	1
HTHRHSC 4200 Health Sciences Research	3
<b>Total</b>	<b>15</b>

## YEAR 4

Autumn	Credits
MLS 5300 Chemistry Lecture	5
MLS 5305 Chemistry Lab	2
MLS 5250 Immunohematology Lecture	4
MLS 5255 Immunohematology Lab	2
MLS 5400 Mol. Tech. Lecture	2
<b>Total</b>	<b>15</b>

Spring	Credits
MLS 5089 Clinical Practice	5
MLS 5600 Interdisciplinary Studies	1
MLS 5350 Professional Issues	3
HTHRHSC 5300 Management and Human Resources	3
Elective (if needed to reach 120 credits total)	0-4
<b>Total</b>	<b>12-16</b>

The above plan demonstrates how students may complete the MLS Certification program in eight semesters. It is assumed that students following this plan who are admitted to the program will begin professional coursework in the autumn semester of year three. There is flexibility in when a student may take courses in years one and two. However, in years three and four, the curriculum is more structured with limited ability to change. Students may choose to take non-professional courses over summer terms.

Taking all GE courses before starting the professional program is highly recommended. The professional curriculum is completed in sequence, and students may complete the program part-time. However, there is no provision for evening-only enrollment. Students who intend to transfer credit to Ohio State may view how credit is accepted on [Transferology.com](https://www.transferology.com).

Ohio State academic programs are designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure and certification and state licensing board contact information [here](#) for online programs and [here](#) for on-campus programs.

Questions? Contact the School of Health and Rehabilitation Sciences at 614-292-1706 or [HRStudentservices@osumc.edu](mailto:HRStudentservices@osumc.edu)

Updated June 2023