

Bachelor of Science (B.S.) Medical Laboratory Science

2024 – 2025
Catalog Year

Secondary application required

1st Year		
Fall	Winter	Spring/Summer
¹ BIO 120 General Biology I ^{GE Life Science} 4	³ BMS 250 Anatomy & Physiology I 4	As Needed
CHM 109 Intro to Chemistry ^{GE Physical Science} 4	CHM 231 Intro to Organic Chemistry 4	
² MTH 110 Algebra (prerequisite to STA 215) 4	MLS 102 Intro to Med Lab Science ^(fall only) 1	
General Education Course ^{Art} 3	⁴ WRT 150 Strategies in Writing ^{GE Writing} 4	
	General Education Course ^{GE Social & Behavior Sci.} 3	
Total 15	Total 16	
2nd Year		
Fall (<i>Application opens Oct. 1st</i>)	Winter (<i>Priority App. Due: March 15th</i>)	Spring/Summer
³ BMS 251 Anatomy & Physiology II 4	AHS 100 Medical Terminology 3	
CHM 232 Biological Chemistry 4	BIO 355 Human Genetics 3	
INT 201 Diversity in the U.S. ^{GE SBS & US Div.} 3	BMS 212 & 213 Intro Microbiology w/ lab 4	
General Education Course ^{GE Philosophy/Literature} 3	STA 215 Intro. Applied Statistics ^{GE Math} 3	
Total 14	Total 13	
3rd Year		
Fall	Winter <u>Start of the professional program</u>	Spring/Summer
AHS 301 Intro. to Health Care Research <u>or</u> PSY 300/SWS <u>or</u> BMS 301 3	MLS 320 Gen. Lab Pract. & Instrumentation 3	(<i>1st six weeks only</i>)
BMS 310 Pathophysiology 3	MLS 340 & 341 Hematology I w/ Lab 3	⁶ MLS 350 Mgt. for Lab Science 2
BMS 410 Immunology 3	MLS 374/375 Clinical Microbiology I w/ Lab 4	MLS 333 Transfusion Medicine I 3
General Education Course ^{GE Historical Analysis} 3	MLS 405 Molecular Diag. & Immunology 4	
General Education Course ^{GE Global Perspectives & Issues} 3	⁵ General Education Course ^{GE Issues} 3	
Total 15	Total 17	Total 5
4 th Year		
Fall	Winter	Spring/Summer
MLS 422 & 423 Clinical Chemistry & Lab 6	⁷ MLS 492 Clinical Practicum 10	⁷ MLS 492 Continued (4 weeks spring semester)
MLS 440 & 441 Hematology II & Lab 3	18 wk clinical: winter start...ends fourth week of spring semester	
MLS 444 Transfusion Medicine II 2	MLS 495 Issues in MLS ^{Capstone/SWS (online/Synch)} 3	
MLS 474 & 475 Clinical Microbiology II & Lab 4		
Total 15	Total 13	

Curriculum Notes:

¹ BIO 180 (fall) & BIO 280 (winter) stretch or CMB 155 (lec) & 156 (lab) may be taken in place of BIO 120. Meet with a CHP academic advisor before electing this substitution.

² MTH 108 and MTH 109 may be taken in place of MTH 110

³ BMS 208, 290 and BMS 391 may be take in place of BMS 250 & 251. (BMS 309 is not required)

⁴ WRT 120 (3 credits) and WRT 130 (3 Credits) may be taken in place of WRT 150 (4 credits).

⁵ General Education Issues listed in 3rd year winter may be taken in 3rd year spring/summer or in 4th year winter as well.

⁶ MLS 350 may be offered online, hybrid or in-person depending upon instructor preference.

⁷ MLS 492 clinical starts final winter semester and runs 18 weeks, concluding midway through the 1st spring/summer session. Students apply for spring/summer (June) graduation and will be invited to walk in April commencement.

Special Notes:

- This is a **general** curriculum guide and might not be applicable to all students.
- Two Supplemental Writing Skills (SWS) are required; 1 in the general education program and 1 in your major.
- Student must have a **minimum of 120 credits** to graduate with **58 of the 120 credits** from a senior level institution and the **final 30 of the 120 credits** completed at GVSU. Elective coursework may be necessary to reach these requirements.

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Admission Information

The Medical Laboratory Science (MLS) program at Grand Valley State University is a “secondary admission” program where a person interested in starting the MLS coursework must first be admitted to GVSU. Student may then apply to the program following the criteria below.

Phase I: Admission Criteria

The following prerequisites must be complete or in progress at the time of application.

- Overall GPA and science GPA of 2.8 or above
- CHM 109
- BIO 120
- BMS 250
- Completion of 45 hours

Phase II: Application Process (secondary application)

The application process consists of the following components all of which must be complete and submitted as directed below by **March 15th**, prior to the intended winter semester of entry. Late applications will be considered for qualified applicants if space is available in the program. To request a late application contact Lilianne Nelson at scholli@gvsu.edu.

- [MLS Program Application](#) (*complete & submit online*)
- **Resume** (*upload through application*)
- **Unofficial transcripts** from all colleges/universities attended (*upload through application*)
- **1-2 page statement of professional philosophy.**
 - Why have you chosen MLS as a profession? (*upload through application*)
- **2 completed MLS [Recommendation forms](#)** by the respondents as follows:
 - **1** University faculty member (**preferably a laboratory instructor**)
 - **1** Any university faculty member, health care professional or current/previous employer.
- **Verification of Course Completion** form (*upload through application*)

Application review will begin immediately following the application deadline and all qualified applicants will be invited to interview with an MLS faculty member.

Phase III: Applicant Notification

Applicants will be notified of admission status to the program within three weeks of meeting with program faculty. The program coursework begins in the winter semester with a maximum of 24 students.

Student Services Office
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The Medical Laboratory Science (MLS) undergraduate major resides in the College of Health Professions (CHP)
For more information or to meet with a CHP Student Services academic advisor please call (616) 331-5900
Visit our website at www.gvsu.edu/chpss and the MLS website at www.gvsu.edu/mls