




# **Medical Laboratory Science Major**

Information Breakdown

2025-2026



# Medical Laboratory Science Professional

- MLS – Medical Laboratory Science
- Generate accurate laboratory information that assists physicians in patient care:
  - Diagnosis
  - Treatment
  - Disease monitoring and prevention
- MLS uses sophisticated biomedical instrumentation and technology, computers, and methods requiring manual dexterity to perform laboratory testing on blood, body fluids, and other tissues.
- Laboratory testing includes disciplines:
  - Clinical Chemistry
  - Hematology
  - Immunology
  - Immunohematology
  - Medical Microbiology
  - Molecular Biology
- Evaluate testing quality and consult with other members of the healthcare team



# How do you become certified?

## Eligibility Routes for Medical Laboratory Scientists, MLS(ASCP)

To be eligible for this examination category, an applicant must satisfy the requirements of at least one of the following routes:

- Route 1
  - Baccalaureate degree from a regionally accredited college/university,
  - AND successful completion of a NAACLS accredited Medical Laboratory Scientist program within the last five years.



The education received from a NAACLS accredited MLS program is acceptable for a period of five (5) years from the date of completion of that program. After five years, the applicant's eligibility will be based on clinical laboratory experience as stated in the current examination eligibility requirements.

# Medical Laboratory Science Major

- A combination of baccalaureate degree program AND NAACLS accredited program
- Upon graduation, you are eligible to sit for the BOC ASCP exam
- A limited enrollment major
  - 4 years – academic courses on campus
  - About 6 months of clinical practicum at an MSU hospital-affiliate
  - Total credits: 134 (typical undergraduate degree is 120 credits)



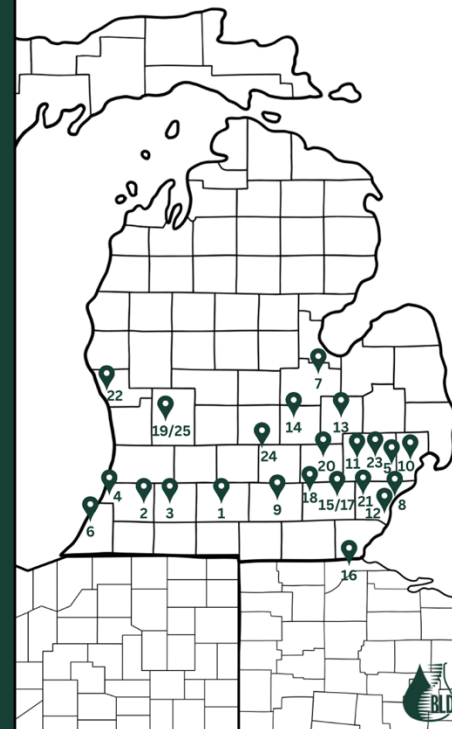
# MSU Affiliate Clinical Sites 2025-2026

- Bronson Battle Creek Hospital – Battle Creek, MI
- Bronson Lakeview Hospital – Paw Paw, MI
- Bronson Methodist Hospital – Kalamazoo, MI
- Bronson South Haven – South Haven, MI
- Corewell Health Beaumont Hospital – Troy, MI
- Corewell Health Lakeland Hospital – St. Joseph, MI
- Covenant HealthCare Lab – Saginaw, MI
- Henry Ford Health – Detroit, MI
- Henry Ford Jackson Hospital – Jackson, MI
- Henry Ford Macomb Hospital – Macomb, MI
- Henry Ford West Bloomfield Hospital – West Bloomfield, MI
- Henry Ford Wyandotte Hospital – Wyandotte, MI
- Hurley Medical Center – Flint, MI
- Memorial Healthcare Lab – Owosso, MI
- Michigan Medicine – Ann Arbor, MI
- ProMedica Laboratories – Toledo, OH
- Trinity Health Ann Arbor Hospital Laboratory – Ann Arbor, MI
- Trinity Health Chelsea Hospital – Chelsea, MI
- Trinity Health Grand Rapids – Grand Rapids, MI
- Trinity Health Medical Center – Brighton, MI
- Trinity Health Livonia Hospital – Livonia, MI
- Trinity Health Muskegon Hospital – Muskegon, MI
- Trinity Health Oakland Hospital – Pontiac, MI
- University of Michigan Health-Sparrow – Lansing, MI
- University of Michigan Health West – Grand Rapids, MI

## MLS/MSU Clinical Affiliates 2025-2026

### Clinical Affiliates List

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25. University of Michigan Health West – Grand Rapids, MI



# Timeline for the application

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|--|--|
| Year 1 Fall: General Ed Credits  | Year 1 Spring: General Ed Credits  |
| Year 2 Fall: General Ed Credits  | Year 2 Spring: General Ed Credits  |
| <u>Year 3 Fall</u> <ul style="list-style-type: none"> <li>• Ensure all coursework is complete for application (see your BLD advisor)</li> <li>• Submit application by January (MLK Day)</li> </ul> | <u>Year 3 Spring</u> <ul style="list-style-type: none"> <li>• Schedule two interviews: Dr. Gerlach &amp; Ms. Richardson</li> <li>• Sign up for writing composition (via Zoom)</li> </ul> |
| Summer – admission decision via email  |  |
| <u>Year 4 Fall</u> <ul style="list-style-type: none"> <li>• Professional development meetings</li> <li>• Laboratory tours/interviews</li> </ul>  | <u>Year 4 Spring</u> <ul style="list-style-type: none"> <li>• Professional development meetings</li> <li>• Clinic orientation meeting</li> </ul>   |
| <u>Year 4 Summer-Fall</u> <ul style="list-style-type: none"> <li>• Examination courses</li> <li>• Clinical rotation can begin</li> </ul>   |  |



# Major Selection

- IF admitted – Major changes to Medical Laboratory Science Major
- IF not admitted – Major stays as Biomedical Laboratory Science but will need to choose a BLS concentration



# Coursework for application

- See your BLD advisor for ensuring you are on track to apply
  - If the courses are full, contact your advisor or submit an override request
  - In order to apply, you need to have a GPA of 2.5 or better in BLD 204, BLD 213L, BLD 313, and BLD 314L
- BLD 121
  - BLD 204
  - BLD 213L
  - BLD 302
  - BLD 314L
  - MGI 201
  - BLD 313
  - BLD 324
  - BLD 434
  - BMB 401
  - BLD 435
  - MGI 365
  - MMG 365L





# Apply Now!

See your BLD Advisor to ensure your eligible to apply

<https://bld.natsci.msu.edu/students/advising.aspx>

Find the MLS application on the BLD website

<https://bld.natsci.msu.edu/academics/undergraduate-programs/medical-laboratory-science/application-process.aspx>

Submit your MLS application between **December 1<sup>st</sup> and January 19<sup>th</sup>**

