2026-27 Academic Year

MEDICAL LAB SCIENCE

If you have a passion for biology, chemistry, and health, medical lab science is an excellent career choice for you. Medical laboratory science is the behind-the-scenes work in diagnosing and treating disease. Health professionals collect samples, while lab scientists run tests to understand what might be going on in a patient. They might discover cancer, infection, or genetic diseases. They might help develop a treatment for an illness. For these important roles, you'll need a solid education in biology and health sciences. Wayne State provides just that. In fact, the students that follow our Medical Laboratory Science degree program are well prepared to move on to graduate work at competitive universities such as the University of Nebraska Medical Center (UNMC), and they enjoy successful careers in the medical field.

fast facts

Credit hours: 56-57 at WSC; 30 at an affiliated hospital

Students must also take 30 credit hours of General Studies courses. A total of 120 credit hours are needed to graduate from WSC. Additional majors or minors can be added to help meet graduation requirements.

Degree options: B.A. or B.S.

Department: Life Sciences

School: Science, Health, and Criminal Justice

Popular pairings: Chemistry, Public and Global Health

focus on results

Skills Learned

- Microbial staining technique
- Microbial enumeration
- Microbial identification
- Aseptic techniques
- Chemical analysis
- Molecular techniques
- Forensic analysis

Possible Careers

- Criminal lab technologist
- Clinical lab technician
- Medical technologist
- Lab supervisor
- Geneticist
- Histologist
- Microbiologist

Types of Employers

- Hospitals and medical clinics
- Medical research facilities
- Public health organizations
- Research and development centers
- Pharmaceutical companies
- Food science laboratories
- Chemical companies
- Government / federal agencies
- Non-profit organizations
- Forensic labs

outside the classroom

Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

Activities / Opportunities

- Conduct research projects
- Conferences and presentations
- Peer mentoring and tutoring
- Rural Health Opportunities Program (RHOP)
- Service-Learning
- Study Abroad

Clubs / Organizations

- Biology Club
- Health Science Club

Courses and outcomes

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The following courses are required for the program of study described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for registering and taking these courses, please consult the current academic catalog and your advisor.

Program courses

For CAT 3, take MAT 180 Applied Probability and Statistics.

Life Sciences Core Courses

BIO 110 Biology Concepts	4
CHE 106 General Chemistry I	4
PHY 321 Physics Laboratory I	1
Select one of the following	3-4
PHY 201 General Physics I (3)	
PHY 301 University Physics I (4)	

Medical Lab Science Content Courses

BIO 220 Human Anatomy	4
BIO 301 Biology Seminar	1
BIO 320 Molecular Genetics	4
BIO 340 Human Physiology	4
BIO 385 Microbiology	4
BIO 486 Immunology	3
CHE 107 General Chemistry II	4
CHE 208 Introductory Organic Chemistry	4
CHE 326 Biochemistry I	4
MAT 180 Applied Probability and Statistics	3
Upper-level electives	9

Clinical Year

The final (clinical) year consists of 30 credit hours at an affiliated hospital. A minimum of 90 credit hours is required prior to the clinical year. The Medical Laboratory Science Program satisfies the requirements and standards established by the National Accrediting Agency for Medical Laboratory Sciences (NAACLS).

Student learning outcomes

1. Students will be able to interpret core concepts in biology
2. Students will be able to apply concepts in biology to internships and/or student research
3. Students will be able to accurately communicate core concepts in biology

life sciences faculty

Visit www.wsc.edu/life-sciences-department to learn more about the Department of Life Sciences.

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