

MAYVILLE STATE UNIVERSITY

Medical Lab Science
Bachelor of Science



Personal Service

We pride ourselves on being just the right size to give students the time they need to be successful. Our average class size is 15, so you will have small, personalized class settings with a technologic focus for you to receive the education that you deserve. Your professors will introduce you to new ways of thinking, explore issues creatively, and evaluate ideas as you engage in the world.

Opportunity

Whether it's music, athletics, or politics, students at MSU have the chance to participate in a variety of activities and clubs. These organizations are a great way to make new friends with similar interests, and the involvement outside the classroom looks great on a resume.

Some clubs and activities include:

- Theater
- Band & choir
- DECA
- Science Club
- Comet Radio
- Student government
- Intramural sports

Success

Our students get jobs. Period. We also have internship opportunities to give you real, hands-on learning experiences and make your resume stand out.

Value

The combination of MSU's affordability and its unique offerings make it a Best in the Midwest College, as designated by the Princeton Review. This selection process is based on meeting criteria for academic excellence as well as results of surveys done by current MSU students.

The Program

Create. Solve. Explore. Discover. As a medical laboratory scientist, you'll be helping to solve today's and tomorrow's medical mysteries. The tests you perform to analyze blood, urine, tissue, or other body specimens using sophisticated instruments, along with your specialized knowledge and learned techniques, will provide the information doctors need in diagnosing illness. In MSU's medical laboratory science (MLS) program, you'll receive the attention and hands-on laboratory experience you deserve. The program is designed to give you the necessary, medically-oriented scientific background needed to enter clinical training at an accredited laboratory. Make an impact in the world as a key member of the health care team whose work provides valuable information used in the diagnosis and treatment of disease.

Mayville State is an affiliate of the Western College Alliance for Medical Laboratory Science (WCAMLS), which is a cooperative program between 13 upper Midwest colleges and universities and the University of North Dakota. The mission of the WCAMLS is to train students in the profession of medical laboratory science. Mayville State's medical laboratory science program consists of three years of coursework completed at Mayville State. An intensive twelve-week summer practicum at the University of North Dakota follows this academic preparation. During the fourth year, through affiliation with UND, you'll participate in a clinical internship at an accredited hospital. The program has clinical affiliation agreements with more than 40 medical centers throughout North Dakota, Minnesota, Montana, Colorado, South Dakota, Wisconsin, Wyoming, Iowa, and Oregon. Upon completion of this fourth-year clinical experience, you'll graduate with a degree in medical laboratory science from Mayville State University and be eligible for a national certification exam, having received a certificate of program completion from UND.



1.800.437.4104

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Major: Medical Lab Science

The academic portion of the program provides the student with a broad-based background in the sciences as well as essential studies courses in communications, the humanities and the social and behavioral sciences. The first two years primarily involve essential studies courses and fundamental courses in chemistry, microbiology, anatomy and physiology. The third year involves the student in courses more directly relevant to the major such as clinical microbiology, hematology, and immunology. The clinical year provides practical experience in clinical laboratory techniques.

The Medical Laboratory Science program requires completion of a minimum of 120 semester hours which are mostly prescribed. Establishing an early working relationship with the Mayville State program advisor is strongly recommended. Program fees based on current fees at UND are charged to all students during the professional practicum and internship year. There are additional special requirements; prior to admission to the UND clinical year, a background check must be performed. All clinical affiliates require specific immunizations and testing to be completed (or a signed liability waiver) before entrance into the medical facility. Students are responsible for additional costs that include travel, housing, food, and summer lab course fees during the practicum and internship year.

Required Coursework:

MLS 234	Human Parasitology	2 SH
MLS 301	Immunology	3 SH
MLS 325	Hematology	3 SH
MLS 325L	Hematology Lab	1 SH
MLS 336	Laboratory Calculations	1 SH
MLS 394	Medical Microbiology	2 SH
MLS 471	Clinical Chemistry I	2 SH
MLS 472	Pre-Analytical Testing	1 SH
MLS 473	Clinical Hematosis I	2 SH
MLS 474	Clinical Urinalysis I	2 SH
MLS 477	Clinical Immunohematology I	1 SH
MLS 477L	Clinical Immunohematology I Lab	1 SH
MLS 478	Clinical Microbiology I	2 SH
MLS 479	Clinical Hematology I	2 SH
MLS 480	Clinical Immunohematology II	2 SH
MLS 481	Clinical Chemistry II	2 SH
MLS 483	Clinical Hemostasis II	1 SH
MLS 484	Clinical Microbiology II	2 SH
MLS 485	Clinical Urinalysis II	1 SH
MLS 487	Medical Mycology	1 SH
MLS 488	Clinical Hematology II	2 SH
MLS 489	Clinical Body Fluids/Instrumentation	1 SH
MLS 490	Financial, Quality Management Clinical Lab	3 SH
MLS 491	Clinical Chemistry III	2 SH
MLS 492	Clinical Immunohematology III	2 SH
MLS 494	Clinical Immunology	1 SH
MLS 495	Clinical Microbiology III	2 SH
MLS 498	Clinical Hematology III	2 SH

Total 49 SH
(minor required)

Essential Studies Courses

Medical lab science majors must complete 36 hours of essential studies requirements. The following Essential Studies courses require a minimum grade of "C": COMM 110, ENGL 110, ENGL 120 or ENGL 125, GEOG 103, and PSYC 111.

The MSU Bachelor of Science degree requires completion of at least a minor program in a supporting area in conjunction with the major.

Admission to Medical Laboratory Science Major

All admission criteria are monitored and enforced by the discipline faculty. Admission to the Medical Laboratory Science major requires that the student:

1. Complete BIOL 150, BIOL 150L, BIOL 151, BIOL 151L, BIOL 350, BIOL 350L, CHEM 121, CHEM 121L, CHEM 122 and CHEM 122L with a minimum grade of "C" in each course.
2. Have a cumulative GPA of at least 2.80.
3. Have satisfactory communication skills as demonstrated by completion of ENGL 110 and ENGL 120 or ENGL 125 with a minimum grade of "C" in each course.
4. Have satisfactory mathematics skills as demonstrated by successful completion of MATH 103 with a minimum grade of "C."
5. Have satisfactory computer skills as demonstrated by successful completion of CIS 119 with a minimum grade of "C" or comparable performance on the appropriate University examination.
6. Complete an oral interview with the discipline faculty.

Final approval of the discipline faculty is contingent upon their professional judgment following consideration of documentation and faculty assessment.

