

# Mayville State University

## Medical Lab Science Bachelor of Science

Mayville State is proud to help students achieve their educational, professional, and personal goals at an extremely affordable price. The combination of MSU's affordability and its unique offerings makes it a Best Midwestern College, as designated by the Princeton Review. MSU was also named one of the 2011 Top Five Best Public Universities in the Midwest by the U.S. News and World Report.



### Personal Service

We pride ourselves on being just the right size to give students the time they deserve. Our average class size is 15.

### Opportunity

You'll have the chance to develop your leadership skills, which will help you succeed in your career after graduation. Athletes can get involved as members of men's and women's sports teams. All students have the opportunity to participate in all sorts of activities and clubs. Campus activities include theatre, band, choir, Campus Crusade, Science Club, Comet Radio, student government, intramural sports, and more.

### Success

Our students get jobs. Period. We also have internship opportunities to give you real, hands-on learning experiences and make your resumé stand out. Job placement rates are consistently 96-98%!

### "Suite" Dorm Life

MSU's largest residence hall, Agassiz Hall, has been completely transformed to provide apartment- and suite- style living accommodations. Two- or four- person units are available. They all feature private bathrooms and spacious furnished living rooms.

**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.

### The Program

Mayville State is an affiliate of the Western College Alliance for Medical Laboratory Science (WCAMLS), which is a cooperative program between twelve 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.



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## Medical Lab Science Advantages

**Hands-on experience in the lab.** Unlike many other undergraduate programs where hands-on laboratories are becoming increasingly rare, as a student at Mayville State, you'll have the invaluable opportunity to get into the lab right away. Mayville State's science department laboratories have many state-of-the-art instruments used in modern research and analysis.

**Make a difference.** This exciting and rewarding health career is constantly changing and advancing as new knowledge and new technologies emerge. Whether uncovering diseases such as hepatitis, genetic disorders and cancer, or working in a forensic laboratory, management or marketing, as a medical laboratory practitioner, you will provide very important information in all areas of health and medicine.

**Unlimited career opportunities.** There is a demand for well-educated and highly motivated medical laboratory professionals. You'll have unlimited opportunities in hospital labs, clinics, the medical examiner's forensic laboratory, veterinary clinics, and in medical, biotechnology, and industrial research laboratories. Traveling technician positions are also available for those who would like to explore the country or even the world. Other areas in laboratory medicine such as cytogenetics, cytotechnology, and histology offer additional exciting career choices for you. With advanced education, you may find a rewarding career in medicine, teaching, and/or management.

The program of study for the first three years at Mayville State is aligned with the University of North Dakota School of Medicine & Health Sciences MLS program. Upon successful completion of the pre-requisite required coursework the student applies to the UND MLS program for his or her fourth year of study. The applicant must have a cumulative GPA of at least 2.8, must have no more than one "D" in any math or science course, and be recommended by his or her advisor. A summer practicum experience on the UND campus in Grand Forks is required, followed by approximately seven months experience in a clinical laboratory or a medical center. For the clinical experience, the program has clinical affiliation agreements with more than 40 medical centers in nine states.

Medical laboratory science majors must complete 36 hours of general education, including BIOL 150, BIOL 151, ECON 201, ENGL 110, ENGL 120, MATH 103, PSYC 111 and SOC 110, which are all pre-requisite courses to this major. The MSU Bachelor of Science degree requires completion of at least a minor program in a supporting area in conjunction with the major.

## A Word About Our Grads

Mayville State's medical laboratory science graduates will find many career opportunities open to them. This exciting and rewarding health career is constantly changing and advancing. Employment opportunities exist not only in hospitals and clinics, but also in physician offices, government agencies, industry, research, and the armed forces.

A severe shortage of medical laboratory scientists exists and has generated a large demand for new graduates. Whether uncovering diseases, working in a forensic laboratory, management, or marketing as a medical laboratory scientist, you will provide very important information in all areas of health and medicines.

## MLS - UND Requirements

### SENIOR - Summer Semester

MLS 234	Human Parasitology
MLS 301	Immunology
MLS 325	Hematology
MLS 325L	Hematology Lab (summer session)
MLS 336	Lab Calculations
MLS 340	Molecular Diagnostics (elective)
MLS 394	Medical Microbiology

## Medical Lab Science

### Core Requirements

#### SENIOR - Summer Semester

MLS 471	Clinical Chemistry I.....	2
MLS 472	Pre-Analytical Testing.....	1
MLS 473	Clinical Hemostasis I.....	2
MLS 474	Clinical Urinalysis I.....	2
MLS 477/L	Clinical Immunohematology I & Lab.....	1/1
MLS 478	Clinical Microbiology I.....	2
MLS 479	Clinical Hematology I.....	2

#### SENIOR - Fall Semester

MLS 480	Clinical Immunohematology II.....	2
MLS 481	Clinical Chemistry II.....	2
MLS 483	Clinical Hemostasis II.....	1
MLS 484	Clinical Microbiology II.....	2
MLS 485	Clinical Urinalysis II.....	1
MLS 487	Medical Mycology.....	1
MLS 488	Clinical Hematology II.....	2
MLS 489	Clinical Body Fluids.....	1

#### SENIOR - Spring Semester

MLS 490	Financial/Quality Management.....	3
MLS 491	Clinical Chemistry III.....	2
MLS 492	Clinical Immunohematology III.....	2
MLS 494	Clinical Immunology.....	1
MLS 495	Clinical Microbiology III.....	2
MLS 498	Clinical Hematology III.....	2