

**Create. Solve. Explore. Discover.** As a Clinical 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 Mayville State University's **Clinical Laboratory Science (CLS)** 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 Clinical Laboratory Science (WCACLS), which is a cooperative program between twelve upper Midwest colleges and universities and the University of North Dakota. The mission of the WCACLS is to train students in the profession of clinical laboratory science. Mayville State's Clinical 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 Clinical Laboratory Science from Mayville State University, and be eligible for a national certification exam having received a certificate of program completion from UND.

## Impact Your Future

Career Advancement

Challenging Opportunities — Rewarding Experiences



## 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 clinical 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 clinical 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 technical 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.



For more information  
visit [www.mayvillestate.edu](http://www.mayvillestate.edu)  
or  
call 1-800-437-4104

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 CLS program. Upon successful completion of the pre-requisite required coursework the student applies to the UND CLS 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.

## Tentative 4-Year Study Plan

### Year 1 – Fall semester

BIOL 150/L	General Biology I	4
CHEM 121/L	General Chemistry I	4
ENGL 110	Comp. I	3
MATH 103	College Algebra	3
CIS 112	Intro. to Word	1
CIS 114	Intro. To Spreadsheet	1

### Year 1 – Spring Semester

BIO 151/L	General Biology II	4
CHEM 122/L	General Chemistry II	4
COMM 110	Fund of Public Speaking	3
ENGL 120	Comp II	3
CIS 116	Intro to Database	1
CIS 118	Intro Pres Graph	1

### Year 2 – Fall Semester

BIOL 350/L	Molecular Biology	4
CHEM 341/L	Organic Chem I	5
CIS 200	Comp. in Society	1
HPER 100S	Conc. Fitness/ Wellness	2
HPER 200	First Aid & CPR	1
Soc Sci Elec.	Microecon (suggested)	3

### Year 2 – Spring Semester

BIOL 220/L	Anatomy & Physiology I	4
BIOL 302/L	Microbiology	4
CLS 234/L	Parasitology	3
Soc Sci Elec.	Intro to Psych (suggested)	3
Humanities Elective		3

### Year 3 – Fall Semester

BIOL 221/L	Anatomy & Physiology II	4
CLS 301/L	Immunology	4
CLS 325	Hematology	4
CLS 336	Lab Calculations	1
BADM	Prin. Of Management	3

### Year 3 – Spring Semester

CHEM 360/L	Biochemistry	4
CLS 380	Professional Issues	1
CLS 394	Medical Microbiology	2
BIOL Elect		4
Soc Sci Elec	Intro to Soc (suggested)	3
Humanities Elective		3

### Year 4 – Summer Session

CLS 471	Clinical Chemistry I	2
CLS 472	Pre-analyst Testing	1
CLS 473	Clinical Hematosis I	2
CLS 474	C Urinalysis	2
CLS 477/L	C Immunohematology I	2
CLS 478	C Microbiology I	2
CLS 479	C Hematology I	2
CLS 325	Hematology Lab	1

### Year 4 – Fall Semester (at clinical site)

CLS 480	C Immunohematology II	2
CLS 481	C Chemistry II	2
CLS 483	C Hemostasis II	1
CLS 484	C Microbiology II	2
CLS 485	C Urinalysis II	1
CLS 487	Med Mycology	1
CLS 488	C Hematology II	2
CLS 489	C Body Fluids	1

### Year 4 – Spring Semester (at clinical site)

CLS 490	Lab Management	3
CLS 491	C Chemistry III	2
CLS 492	C Immunohematology III	2
CLS 494	C Immunology	1
CLS 495	C Microbiology III	2
CLS 498	C Hematology III	2

## QUESTIONS?

If you have questions about admission, financial aid, or anything else, contact us at:

**1-800-437-4104**

or

**visit [www.mayvillestate.edu](http://www.mayvillestate.edu)**