



### ***Twin Cities Campus***

## **Clinical Laboratory Sciences B.S.**

*Allied-Medical Technology*

### **Academic Health Center Shared**

- Program Type: Baccalaureate
- Requirements for this program are current for Spring 2012
- Required credits to graduate with this degree: 120
- Required credits within the major: 40
- This program is 9 terms (4½ years) long.
- This program requires summer terms.
- We have two performance sites - Mpls. and Rochester which were approved with the initial program proposal. No additional sites requested at this time.
- Degree: Bachelor of Science

The clinical laboratory sciences program prepares students to work in hospital, clinical, and medical research laboratories. Students can be accepted in either the junior or senior year. All courses for the major are taken in the fall and spring semester of the senior year, followed by 22 weeks of clinical coursework. Starting fall 2008 courses will be offered at two locations, Minneapolis and Rochester.

## **Program Delivery**

This program is available:

- via classroom (the majority of instruction is face-to-face)

## **Admission Requirements**

Students must complete 9 courses before admission to the program.

Freshmen students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Upon admission, students are required to submit proof of certain immunizations and vaccinations.

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

### **Required prerequisites**

#### **Preparatory Courses**

Students must take one statistics course and either pre-calculus or calculus.

[MATH 1051](#) - Precalculus I [MATH] (3.0 cr)

or [MATH 1142](#) - Short Calculus [MATH] (4.0 cr)

or [MATH 1271](#) - Calculus I [MATH] (4.0 cr)

[STAT 3011](#) - Introduction to Statistical Analysis [MATH] (4.0 cr)

[BIOL 1009](#) - General Biology [BIOL] (4.0 cr)

[CHEM 1021](#) *{Inactive}* [PHYS] (4.0 cr)

[CHEM 1022](#) *{Inactive}* [PHYS] (4.0 cr)

[CHEM 2301](#) - Organic Chemistry I (3.0 cr)

[CHEM 2302](#) - Organic Chemistry II (3.0 cr)

[PHSL 3051](#) - Human Physiology (4.0 cr)

## **General Requirements**

All students are required to complete general University and college requirements including writing and liberal education courses. For more information about University-wide requirements, see the [liberal education requirements](#). Required courses for the major or minor in which a student receives a D grade (with or without plus or minus) do not count toward the major or minor (including transfer courses).

## **Program Requirements**

MICB 4131, INMD 3001, LAMP 4177, and CLSP 1010 are highly recommended but not required for students pursuing a B.S. degree in



clinical laboratory sciences.

Students are placed in a variety of clinical settings during their clinical coursework. In accord with Minnesota law, a criminal background check is required of each student before clinical courses. The program arranges this check.

#### Junior Year Courses

**BIOC 3021** - Biochemistry (3.0 cr)  
**BIOL 4003** - Genetics (3.0 cr)  
or **GCD 3022** - Genetics (3.0 cr)  
**VBS 2032** - General Microbiology With Laboratory (5.0 cr)  
or **MICB 3301** - Biology of Microorganisms (5.0 cr)

#### Senior Year Courses

**CLSP 4501** *{Inactive}* (2.0 cr)  
**CLSP 4502** *{Inactive}* (2.0 cr)  
**CLSP 4101** *{Inactive}* (2.0 cr)  
**CLSP 4102** *{Inactive}* (2.0 cr)  
**CLSP 4103** *{Inactive}* (2.0 cr)  
**CLSP 4602** *{Inactive}* (1.0 cr)  
**CLSP 4203** *{Inactive}* (1.0 cr)  
**CLSP 4302** *{Inactive}* (3.0 cr)  
**CLSP 4304** *{Inactive}* (2.0 cr)  
**CLSP 4305** *{Inactive}* (2.0 cr)  
**CLSP 4401** *{Inactive}* (3.0 cr)  
**CLSP 4402** *{Inactive}* (2.0 cr)  
**CLSP 4601W** *{Inactive}* [WI] (2.0 cr)  
**CLSP 4301** *{Inactive}* (1.0 cr)  
**CAHP 5110** - Foundations of Interprofessional Communication and Collaboration (1.0 cr)  
**CLSP 4201** *{Inactive}* (3.0 cr)  
**CLSP 4202** *{Inactive}* (2.0 cr)

#### Clinical Courses

These courses should be completed during the clinical rotations in the summer and fall terms following the senior year, including clinical chemistry, hematology and coagulation, transfusion medicine, microbiology, and a specialty laboratory area.

**CLSP 4703** *{Inactive}* (2.0 cr)  
**CLSP 4702** *{Inactive}* (2.0 cr)  
**CLSP 4704** *{Inactive}* (2.0 cr)  
**CLSP 4701** *{Inactive}* (2.0 cr)

## Program Sub-plans

A sub-plan is not required for this program.

#### Rochester

The clinical laboratory sciences major is available at two campus locations, the University of Minnesota, Twin Cities and the University of Minnesota, Rochester. Policies, application materials, and course content are the same at both campuses.

Prerequisites are the same for both performance locations.

#### Honors UHP

This is an honors sub-plan.

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements.

Current departmental honors course offerings are listed at:  
[http://www.honors.umn.edu/academics/curriculum/dept\\_courses\\_current.html](http://www.honors.umn.edu/academics/curriculum/dept_courses_current.html)

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.