Clinical Laboratory Sciences/Medical Technology

College of Science, Engineering & Technology
Department of Biological Sciences
246 Trafton Science Center S • 507-389-2417
Web site: www.mnsu.edu/dept/biology
Director: Lois Anderson, MT(ASCP)

The four-year clinical laboratory sciences & medical technology curriculum leads to the degree of Bachelor of Science in clinical laboratory sciences & medical technology. The first three years are spent at the university; the fourth year is spent at one of the affiliated hospital schools of clinical laboratory sciences/medical technology. Upon successful completion of this year, the BS degree is awarded by the university and graduates are then eligible to take a certifying examination.

Because the clinical laboratory sciences/medical technology curriculum closely parallels that of other majors, such as biology, students from other majors are encouraged to apply.

Admission to Major is granted by the department. Minimum university admission requirements are:
- a minimum of 32 earned semester credit hours.
- a minimum cumulative GPA of 2.00 (C).

Contact the department for application procedures.

Adjunct faculty at the clinical sites include Diane Berke, BS, MT (ASCP); Roberta Hatalla, BS, MT (ASCP); Bob Klicker, MT (ASCP); Sandra Olson, BS, MT (ASCP); Roberta Montgomery, BS, MT (ASCP); and Wendy White, BS, MT (ASCP).

Students should contact the Department of Clinical Laboratory Sciences & Medical Technology early in their college career for admission to the program, for academic and career counseling, and for information on the process and standards for admission to the professional curriculum, including registration procedures. Because enrollment in the fourth year is limited by the size of classes in the affiliated hospital schools, admission to the program does not ensure admission to the fourth year of the curriculum. Admission into the fourth year hospital clinical internship is competitive.

Required for Major (Internship, 32-39 credits):

- BIOL 475 Medical Microbiology (4)
- BIOL 430 Hematology/Introduction to Immunology (4)
- BIOL 420 Diagnostic Parasitology (3)
- BIOL 270 Microbiology (4)
- BIOL 175 Orientation to Clinical Laboratory Science (1)
- BIOL 106 General Biology II (4)

Required for Major (Core, 31 credits):

- CHEM 320 Organic Chemistry I (5)
- CHEM 305 Analytical Chemistry (4)
- CHEM 202 General Chemistry II (5)

Required Support Courses (18 credits):

- in General Education Category 4

Required General Education (9 credits):

- P/N Grading Policy. No P/N grades are accepted toward the major except BIOL 175.
- Probation. Refer to the College regarding required advising for students on academic probation.
- GPA Policy. A GPA of 2.0 is required in both sciences courses and cumulative coursework.

Policies/Information

Students majoring in Clinical Laboratory Sciences/Medical Technology have an advisor from their area of interest assigned to them. Questions and concerns pertaining to advising and the assignment of advisors can be answered by Angie R. Bomier, student relations coordinator, C125 Trafton Science Center, telephone 389-1521.

Agencies participating in the Clinical Laboratory Sciences/Medical Technology program include, but are not limited to: Hennepin County Medical Center, Minneapolis, John T. Crosson, MD, Bob Klicker, MT (ASCP); Mercy Hospital Medical Center, Des Moines, Iowa, Vijaya Dhanwazza, MD, Kyla Deibler, MT(ASCP); St. Luke's Methodist Hospital, Cedar Rapids, Iowa, Kinsley Grant, MD, Nadine Sojka, MT(ASCP); University of Minnesota, Minneapolis, MN, Patricia Solberg, MT(ASCP), Donna Spannaus-Martin, Ph.D. Hennepin County Medical Center and the University of Minnesota are required by law to do background checks on all students admitted to their medical technology internship program.

Course Descriptions

- MEDT 410 (1-10) Clinical Hematology I
- MEDT 411 (1-10) Clinical Immunohematology I
- MEDT 412 (1-10) Clinical Microbiology I
- MEDT 413 (1-10) Clinical Chemistry I
- MEDT 414 (1-10) Clinical Microscopy I
- Required General Education (9 credits):

Clinical Laboratory Sciences/Medical Technology BS

Required General Education (9 credits):

- CHEM 201 General Chemistry I (5)
- MATH 112 College Algebra or any higher numbered math course listed in General Education Category 4

Required Support Courses (18 credits):

- CHEM 202 General Chemistry II (5)
- CHEM 305 Analytical Chemistry (4)
- CHEM 320 Organic Chemistry I (5)
- CHEM 360 Principles of Biochemistry (4)

Required for Major (Core, 31 credits):

- BIOL 105 General Biology I (4)
- BIOL 106 General Biology II (4)
- BIOL 175 Orientation to Clinical Laboratory Science (1)
- BIOL 211 Genetics (4)
- BIOL 230 Human Physiology (4)
- BIOL 270 Microbiology (4)
- BIOL 420 Diagnostic Parasitology (3)
- BIOL 430 Hematology/Introduction to Immunology (4)
- BIOL 475 Medical Microbiology (4)

Required for Major (Internship, 32-39 credits):

- Complete up to 32-39 credits from the following courses:
  - MEDT 410 MEDT 411 MEDT 412 MEDT 413 MEDT 414
  - MEDT 415 MEDT 416 MEDT 417 MEDT 418 MEDT 419

Required Minor: None.

Special Requirements:

- If internship is at Hennepin County Medical Center students must complete: BIOL 380 Blood Banking/Urinalysis (3)
- If internship is at the University of Minnesota, students must complete: A second math class either in pre calculus, calculus, or biostatics. The University of Minnesota does not require BIOL 420, BIOL 430, or BIOL 475, but highly recommends BIOL 220 Human Anatomy and PHYS 211 Principles in Physics I for admission to their internship program.

This is in addition to degree requirements.

2004-2005 Undergraduate Bulletin 91
Clinical Laboratory Science/Medical Technology

MEDT 420 (1-10) Clinical Microscopy II
A continuation of Clinical Microscopy I.

MEDT 499 (1-6) Individual Study
Related topics in medical technology.