

BS in Medical Laboratory Sciences

Admission to Professional Curriculum

The deadline for fall semester admission to the professional program is March 15. The deadline for spring semester admission to the professional program is October 15.

To qualify as a candidate for admission to the professional phase, the student must:

1. Be admitted to WSU;
2. Be in the process of completing, or have completed, the preprofessional requirements with grades of C (2.000) or better;
3. All prerequisite science courses need to be completed within the past 10 years;
4. Submit an application to department;
5. Submit three letters of recommendation;
6. Have an overall minimum GPA of 2.500;
7. Complete a professional goal statement; and
8. Participate in interview and a basic skills assessment (based on program technical standards).

Acceptance into the professional phase of the program is determined by the medical laboratory sciences admissions committee.

Prerequisite Science Courses

Course	Title	Hours
Select one of the following		10
CHEM 211 & CHEM 212	General Chemistry I and General Chemistry II	
Or equivalent general chemistry (two semesters at the chemistry major level with lab)		
Select one of the following		3
MLS 311	Biochemistry for Clinical Scientists	
CHEM 661	Principles of Biochemistry	
Or equivalent biochemistry		
BIOL 210	General Biology I (or equivalent general biology, one semester with lab)	4
Select one of the following		4-6
HS 290	Foundational Human Anatomy and Physiology	
BIOL 223	Human Anatomy and Physiology	
BIOL 534 & BIOL 535	Human Physiology and Human Physiology Lab	
Or equivalent human or mammalian physiology		
Select one of the following		4-5
BIOL 220	Introduction to Microbiology	
BIOL 330	General Microbiology	
Or equivalent general or introductory microbiology with lab		
Select one of the following		3
MLS 405	Medical Immunology	
BIOL 590	Immunobiology	
Or equivalent immunology		
Total Credit Hours		28-31

Program Requirements

A minimum total of 120 credit hours is required for the Bachelor of Science program in medical laboratory sciences with 28–31 credit hours of prerequisite science courses and 54 credit hours of professional courses. Professional courses include 17 weeks of professional practice

in medical laboratories that are affiliated with WSU. The program is accredited by the National Accrediting Agency of Clinical Laboratory Sciences (NAACLS). Upon successful completion of the program, students are eligible to sit for the national certification examination through the American Society for Clinical Pathology (ASCP).

In addition to meeting the requirements of the WSU General Education Program (<http://catalog.wichita.edu/undergraduate/academic-information/general-education-program/>) and the requirements of the College of Health Professions, students in the BS in medical laboratory sciences program must take the following courses:

Course	Title	Hours
General Education		
Select courses to meet General Education requirements ¹		34-35
Prerequisite Science Courses		
Complete the prerequisite admission courses		28-31
Professional Curriculum		
MLS 400	Clinical Laboratory Management/Education	3
MLS 452	Principles of Urinalysis	2
MLS 453	Clinical Chemistry	8
MLS 463	Clinical Hematology	8
MLS 473	Immunohematology	8
MLS 479	Applied Immunohematology ²	3
MLS 494	Special Topics in Clinical Microbiology	3
MLS 488	Core Laboratory Practicum ²	8
MLS 495	Clinical Microbiology	8
MLS 498	Applied Clinical Microbiology ²	3
Total Credit Hours		120

¹ Required major courses may also count towards General Education requirements. Students will need to select additional electives to reach 120 credit hours required for graduation with assistance from an advisor.

² Applied learning courses.

Applied Learning

Students in Bachelor of Science program in medical laboratory sciences are required to complete an applied learning or research experience to graduate from the program. The requirement can be met by successfully completing MLS 479, MLS 488 and MLS 498.

MLT to MLS Progression

Graduates of an NAACLS-accredited MLT-AD program with documentation of a passing score on a national certification exam and who have met other admission requirements for the department of medical laboratory sciences program should contact the department office for information concerning degree completion. Other MLT graduates who do not meet the above criteria should contact the department chairperson by email at: mls@wichita.edu.

The MLT to MLS degree completion Bachelor of Science in medical laboratory sciences is available to certified medical laboratory technicians who seek to continue their education in laboratory medicine. The deadline for fall semester admission to the professional program is March 15. The deadline for spring semester admission to the professional programs is October 15.

To qualify as a candidate for admission to the MLT professional phase, the applicant must:

1. Be admitted to WSU;
2. Be in the process of completing, or have completed, the preprofessional requirements with grades of *C* (2.000) or better;
3. All prerequisite science courses need to be completed within the past 10 years;
4. Submit an application to department;
5. Submit three letters of recommendation;
6. Have an overall minimum GPA of 2.500;
7. Complete a professional goal statement; and
8. Participate in interview and a basic skills assessment (based on program technical standards).
9. In addition, the MLT applicant must submit transcripts showing successful completion of an MLT program and verification of certification; and complete challenge exams designed to determine standing in MLS courses.

MLT to MLS Program Requirements

Upon acceptance to the MLS program, a program of study is prepared for the student. Students meet the requirements of the MLS curriculum either through a challenge exam or by completing lectures, student laboratories and practicum experiences in MLS courses.

Course	Title	Hours
HS 400	Introduction to Pathophysiology	4
MLS 400	Clinical Laboratory Management/Education	3
MLS 411	Special Topics ²	1-6
MLS 452	Principles of Urinalysis	2
MLS 458	Advanced Clinical Chemistry	4
MLS 468	Advanced Clinical Hematology	4
MLS 478	Advanced Immunohematology	4
MLS 494	Special Topics in Clinical Microbiology	3
MLS 499	Advanced Clinical Microbiology	4
Total Credit Hours		29-34

² Applied learning course.

MLT to MLS Program Plan

MLT students (students who have earned an associate degree as medical laboratory technicians) may begin the professional program in the fall or spring semester. Students may individualize the program only upon permission of the program director.

Summer Semester		Credit Hours
MLS 494	Special Topics in Clinical Microbiology	3
MLS 400	Clinical Laboratory Management/Education	3
MLS 452	Principles of Urinalysis	2
Credit Hours		8
Fall Semester		
MLS 458	Advanced Clinical Chemistry	4
MLS 468	Advanced Clinical Hematology	4
HS 400	Introduction to Pathophysiology	4
Credit Hours		12

Spring Semester		
MLS 478	Advanced Immunohematology	4
MLS 499	Advanced Clinical Microbiology	4
Credit Hours		8
Clinical Semester		
Applied practice is completed in the last semester of study and is offered every semester. Number of required semester hours is dependent on extent of the MLT to MLS student's documented work experience.		
MLS 411	Special Topics ³	1-6
Credit Hours		1-6
Total Credit Hours		29-34

³ Applied learning course.

Applied Learning

Students in the medical laboratory technician to medical laboratory sciences program are required to complete an applied learning or research experience to graduate from the program. The requirement can be met by successful completion of MLS 411. Specific credit hour requirement for each student is determined by documentation of completion of applied learning tasks.

Other Requirements of all Students

Students are required to provide their own transportation to the clinical sites. Students are required to purchase health and professional and general liability insurance, and to show compliance with current guidelines of health and immunity protection.