



Bachelor of Science in Medical Laboratory Sciences Curriculum

The Wichita State University Medical Laboratory Sciences Program is a university-based program that culminates in a Bachelor of Science in Medical Laboratory Sciences and is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

To earn the Bachelor of Science in Medical Laboratory Sciences at Wichita State University, the student must successfully complete pre-professional coursework and the seventeen month professional program. The professional program consists of twelve months of formal lectures and student laboratory sessions provided on-campus at Wichita State University, followed by twenty weeks clinical experience in a medical facility. MLS students participate in over 100 hours of student laboratory practice on the WSU campus before they are eligible to enter the clinical phase of the program. Student laboratory sessions provide the student with opportunities to practice basic clinical procedures on prepared specimens in a controlled setting. Student laboratories afford the student “hands-on” practice before practicing on actual patients.

During the clinical semester, the student rotates through the specialized clinical laboratory departments at the medical facility. The clinical experience provides opportunity for students to apply their newly acquired skills, knowledge and attitudes as a member of the health care team. The professional program may be entered in fall, spring semesters. Graduates of the program are awarded a BSMLS degree and are eligible to apply for national certification examinations.

To view full course listings and descriptions go to: [Wichita State University College & Undergraduate Program Catalogs](#).

Full Time Program Plan

Full time students may begin the program in fall or spring semester. The full time professional program is four semesters in duration. Three semesters are completed on-campus; the fourth and last semester, the clinical semester, is completed at a medical facility.

Part Time Program Plan

Part time students may begin the program in fall or spring or summer semester. The part time professional program is six semesters in duration. Five semesters are completed on-campus and one semester is completed at a medical facility. Assigned semesters are scheduled to allow two part-time students to enroll in one full-time opening. Students may individualize the program only upon permission of the program director.

MLT-to-MLS Program Plan

MLT-to-MLS students may begin the program in fall or spring semester. MLT-to-MLS students are encouraged to meet with the MLS program director to prepare an individual degree completion program.

Important Note: Curriculum requirements are subject to changes. An effort is made to be accurate at the time of printing. Please contact the Medical Laboratory Sciences program office for the most recent information regarding curriculum.

CURRICULUM

Full-Time Program Plan		
= 52 total credit hours		
Fall Courses	16 Hours Total	Credit Hour
MLS 453 Clinical Chemistry		8
MLS 463 Clinical Hematology		8
Spring Courses	16 Hours Total	Credit Hour
MLS 473 Immunohematology		8
MLS 495 Clinical Microbiology		8
Summer Courses	6 Hours Total	Credit Hour
MLS 400 Clinical Laboratory Management		3
MLS 482 Molecular Diagnostic Techniques		3
<i>The Clinical Semester</i>	14 Hours Total	Credit Hour
<i>These courses are taken in the last semester of study and are offered every semester.</i>		
MLS 488 Core Lab Practicum		8
MLS 479 Applied Immunohematology		3
MLS 498 Applied Clinical Microbiology		3

Part-Time Program Plan		
= 52 total credit hours		
First and Second Fall Semesters (as assigned)		Credit Hour
MLS 453	Clinical Chemistry	8
OR		
MLS 463	Clinical Hematology	8
First and Second Spring Semesters (as assigned)		Credit Hour
MLS 495	Clinical Microbiology	8
OR		
MLS 473	Immunohematology	8
Summer		Credit Hour
MLS 400	Clinical Laboratory Management	3
MLS 482	Molecular Diagnostic Techniques	3
<i>The Clinical Semester</i>		Credit Hour
<i>These courses are taken in the last semester of study and are offered every semester.</i>		
MLS 488	Core Lab Practicum	8
MLS 479	Applied Immunohematology	3
MLS 498	Applied Clinical Microbiology	3

MLT-to-MLS Program Plan		
= 27-32 total credit hours		
Fall Courses		Credit Hour
MLS 458	Advanced Clinical Chemistry	4
MLS 468	Advanced Hematology	4
HS 400	Intro to Pathophysiology	4
Spring Courses		Credit Hour
MLS 478	Advanced Immunohematology	4
MLS 499	Advanced Clinical Microbiology	4
Summer		Credit Hour
MLS 400	Clinical Laboratory Management	3
MLS 482	Molecular Diagnostic Techniques	3
<i>The Clinical Semester</i>		Credit Hour
<i>These courses are taken in the last semester of study and are offered every semester.</i>		
MLS 411	Applied Clinical Practice	1-6