

MASTER OF SCIENCE IN MEDICAL LABORATORY SCIENCES - TRADITIONAL TRACK

Overview

The traditional track is designed for individuals that have BS degree and are interested in pursuing a career in MLS. The program is designed to provide education and career opportunities as a laboratory professional and includes concurrent courses in statistical analysis, evidence based medicine, and research. The Professional MS in MLS traditional track includes knowledge and training in the latest laboratory science technologies, methods and instrumentation used for analysis, laboratory accreditation processes and quality assurance, result review and verification.

Admission Requirements

Applications for the MLS program are accepted between January and mid-June for the incoming class. All application materials, the application fee, official transcripts and all supporting documents must be received by Allied Health Centralized Application System (AHCAS) by the deadline. Applicants who are enrolled in college courses at the time of the application should submit an official transcript showing courses in progress. An official, updated transcript must be submitted upon completion of the courses.

Applicants for the Professional Master of Science in MLS must complete a bachelor's degree from an accredited college or university and all math and science requirements listed below.

All applicants must complete the program prerequisites listed below and no grade less than "C" will be accepted; ALL science courses must be designated for science majors.

Program Prerequisite Requirement

- General Chemistry I with lab (4 semester credit hours)
- General Chemistry II with lab (4 semester credit hours)
- Biology I with lab (4 semester credit hours)
- Biology II with lab (4 semester credit hours)
- General Physiology or Human Physiology (upper division) (3 semester credit hours) OR Human Anatomy and Physiology I & II (BIOL 2301 & BIOL 2302) sequence (6 semester credit hours)
- Microbiology with lab (for science majors) (4 semester credit hours)
- Mathematics course (3 semester credit hours) - must be College Algebra or higher.
- Students are strongly encouraged to have taken courses in Genetics and Statistics.

Additional Program Requirements

- Minimum science GPA of 2.75 (on a 4.0 scale)
- Minimum overall GPA of 2.5 (on a 4.0 scale)
- Completion of the online Allied Health Centralized Application (<https://ahcas.liaisoncas.com>) (AHCAS)

- Payment of a non-refundable application fee for using the AHCAS application
- Submission of the following documents to AHCAS or Office of the University Registrar:
 - Official transcripts from each college and university currently or previously attended. Applicants who are enrolled in college courses at the time of application should submit an official transcript showing courses in progress. An updated transcript must be submitted upon completion of the courses. Note: Transfer credits indicated on another school's transcript are not accepted in lieu of submitting the original institution transcript for that coursework. Transcripts from institutions outside the United States must be submitted in the original language and must be accompanied by a NACES Members evaluation agency English translation (course by course).
- Completion of the two personal essay questions.
- International Applicants only: Applicants from countries where English is not the official language are required to submit scores on the Test of English as a Foreign Language (TOEFL), the International English Language Testing System (IELTS), or Duolingo English Test. The minimum required scores are: TOEFL 84, IELTS 7.0, and Duolingo 115.
- Scores on TOEFL, IELTS, and Duolingo tests taken more than two years prior to the date of application are not acceptable.

Required Documents (if you are accepted) to the Professional Master of Science in Medical Laboratory Sciences program:

If you are made an official offer for the UT Health Science Center at San Antonio Master of Science in Medical Laboratory Sciences (MSMLS) program, all of the following items are required prior to matriculation:

- Non-refundable SHP Tuition Deposit to secure each student's seat for the Professional MSMLS class. Directions for this process will be sent to accepted students.
- Completion of a criminal background check. Directions for this process will be sent to accepted students.
- Completion of student drug testing. Directions for this process will be sent to accepted students.
- Student Immunization Record: All enrolled students at the health science center are required to be fully immunized with required immunizations (<http://catalog.uthscsa.edu/generalinformation/institutionalpolices/immunizations/>) prior to orientation and registration. Additional information is available on the Wellness 360 website (<https://wellness360.uthealthsa.org/services/employee-student-health/student-immunization-tracking/>).
- Final updated transcripts must be submitted upon completion of courses from each college/university to the Office of University Registrar. All foreign transcripts must be also sent to include the original transcript and the NACES evaluated official transcript (course by course).

Office of University Registrar Mailing Address:
Office of University Registrar - MC 7702
7703 Floyd Curl Drive
San Antonio, TX 78229-3900

- Evidence of current health insurance showing dates of coverage. Unless proof of proper insurance coverage is provided before the first day of class, students will be charged for a health insurance policy

through the university. The fee for this policy is non-removable once the payment due date passes and is non-refundable once paid.

Degree Requirements

The Professional Master of Science in Medical Laboratory Sciences degree program is a 24-month program that consists of 74 semester credit hours and a cumulative GPA of 2.75 to be eligible for graduation. The curriculum consists of medical laboratory science courses and clinical practicums. The clinical practicums are completed at clinical affiliates in the San Antonio area and sites throughout South Texas. The courses listed below constitute the curriculum for the Professional Master of Science in Medical Laboratory Sciences.

This is a professional degree program and will not require a thesis for graduation. It is expected that students will be full-time. However, in special circumstances a student may petition to attend part-time. This request for part-time status will be reviewed and approved by the Medical Laboratory Sciences Student Progress Committee. Depending on the part-time status percentage, selection of this option could delay graduation by at least one year.

Sample Plan of Study

First Year

Fall		Credit Hours
MLSC 5000	Immunodiagnostics	3
MLSC 5001	Immunodiagnostics Laboratory	1
MLSC 5002	Clinical Applications of Quality Assessment	1
MLSC 5007	Diagnostic Chemistry	3
MLSC 5008	Diagnostic Chemistry Laboratory	2
MLSC 5010	Diagnostic Microbiology	3
MLSC 5011	Diagnostic Microbiology Laboratory	2
Total Credit Hours:		15.0

First Year

Spring		Credit Hours
MLSC 5003	Diagnostic Hematology	3
MLSC 5004	Diagnostic Hematology Laboratory	2
MLSC 5005	Diagnostic Immunohematology	3
MLSC 5006	Diagnostic Immunohematology Laboratory	2
MLSC 5014	Biostatistics	3
MLSC 6014	Scientific Writing in Medical Laboratory Sciences	2
Total Credit Hours:		15.0

First Year

Summer		Credit Hours
MLSC 5009	Laboratory Analysis of Body Fluids	3
MLSC 5012	Advanced Special Topics in Microbiology	3
MLSC 6016	Research Concepts	3
Total Credit Hours:		9.0

Second Year

Fall		Credit Hours
MLSC 6001	Advanced Diagnostic Hematology	2
MLSC 6002	Principles of Laboratory Management	3
MLSC 6004	Clinical Practicum I	4
MLSC 6005	Advanced Diagnostic Immunohematology	2
MLSC 6018	Advanced Research Concepts	3
Total Credit Hours:		14.0

Second Year

Spring		Credit Hours
MLSC 6000	Advanced Diagnostic Microbiology	2
MLSC 6006	Advanced Diagnostic Chemistry	2
MLSC 6008	Professional Issues in Healthcare	1
MLSC 6098	Molecular Diagnostics	3
MLSC 6009	Clinical Practicum II	4
MLSC 6010	Clinical Practicum III	4
Total Credit Hours:		16.0

Second Year

Summer		Credit Hours
MLSC 6013	Clinical Practicum IV	4
MLSC 6090	Select Topic Practicum (Select Topic Practicum)	1
Total Credit Hours:		5.0