

MEDICAL LABORATORY SCIENCES (POST-BACCALAUREATE CERTIFICATE)

MLSC 4372	Urinalysis Laboratory	1
MLSC 4500	Laboratory Operations and Professional Practice	2
Total Credits		50

Medical Laboratory Sciences (also known as Medical Technology or Clinical Laboratory Sciences) is the branch of laboratory medicine which deals with the study of blood and other body specimens to aid in the diagnosis of human disease, determine optimal therapy, and monitor the progress of treatment. Medical Laboratory Scientists are essential members of the healthcare team who are responsible for performing the analysis, evaluating normal and abnormal results, and correlating the results with disease states. The information they provide physicians is essential to patient care. They are involved with every aspect of clinical laboratory testing including method development, analysis, quality assurance, training of personnel, and laboratory management. Areas of the clinical laboratory include hematology, immunology, microbiology, chemistry, transfusion services, urinalysis and molecular diagnostics.

The Medical Laboratory Sciences Certificate program is open to individuals who possess a bachelor's degree in Biology, Chemistry, Molecular and Cell Biology, or a related subject area and have completed the appropriate prerequisite courses. The certificate program starts in the spring semester. The one and a half year program includes two semesters at the Storrs campus, plus eight weeks of summer courses, followed by an 18 week clinical (practicum) rotation conducted at one of several clinical affiliates throughout the state. The Medical Laboratory Sciences Program is fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). As such, students who have successfully completed the program, may sit for the national certification examination offered by the Board of Certification of the American Society for Clinical Pathology (ASCP).

Required Courses

Course	Title	Credits
AH 2001	Medical Terminology	2
AH 4241	Research for the Health Professional	2
DGS 4234	Diagnostic Molecular Technologies	3
DGS 4235	Laboratory in Molecular Diagnostics	2
MLSC 3301	Fundamentals of Medical Laboratory Sciences	3
MLSC 3333	Mycology, Parasitology and Virology	3
MLSC 3365	Theory of Phlebotomy	1
MLSC 4301	Clinical Chemistry and Instrumentation	2
MLSC 4302	Clinical Chemistry Laboratory	3
MLSC 4311	Hematology	4
MLSC 4312	Hematology Laboratory	3
MLSC 4321	Clinical Immunology	2
MLSC 4322	Clinical Immunology Laboratory	1
MLSC 4341	Clinical Microbiology	4
MLSC 4342	Clinical Microbiology Laboratory	4
MLSC 4351	Transfusion Services	3
MLSC 4352	Transfusion Services Laboratory	3
MLSC 4371	Urinalysis and Hemostasis	2