

# MEDICAL LABORATORY SCIENCES (BS)

Medical Laboratory Scientists apply biological and chemical principles to perform, interpret, and correlate laboratory analyses on body fluids and tissues. Medical Laboratory Scientists are responsible for selecting appropriate methods and implementing quality assurance for tests designed to promote health, and prevent, diagnose and treat diseases.

The Medical Laboratory Sciences major leads to a Bachelor of Science degree. The MLS Program is accredited by the:

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)  
5600 North River Road, Suite 720  
Rosemount, IL 60018-5119  
Phone: (773) 714-8880

Graduates are eligible for the National Board of Certification examination administered by the American Society for Clinical Pathology (ASCP) immediately upon graduation.

## Requirements

The course requirements listed below may also be used to satisfy the University's General Education requirements.

Course	Title	Credits
<b>Mathematics and Science Courses</b>		
Select one of the following:		7-8
CHEM 1124Q & CHEM 1125Q	Fundamentals of General Chemistry I and Fundamentals of General Chemistry II	
CHEM 1127Q & CHEM 1128Q	General Chemistry I and General Chemistry II	
Select one of the following:		3-6
CHEM 2241	Organic Chemistry	
CHEM 2443 & CHEM 2444	Organic Chemistry and Organic Chemistry	
BIOL 1107	Principles of Biology I	4
Select one of the following:		3
MATH 1040Q		
MATH 1060Q	Precalculus	
MATH 1125Q	(or above)	
STAT 1000Q	Introduction to Statistics I	4
or STAT 1100Q	Elementary Concepts of Statistics	
MCB 2000	Introduction to Biochemistry	4
MCB 2610	Fundamentals of Microbiology	4
MCB 2400	Human Genetics	3
or MCB 2410	Genetics	
Select one of the following:		3-8
AH 3025	Human Physiology in Health and Disease	
PNB 2264 & PNB 2265	Human Physiology and Anatomy and Human Physiology and Anatomy	
PNB 2774 & PNB 2775	Enhanced Human Physiology and Anatomy I and Enhanced Human Physiology and Anatomy II	

### Professional Courses

AH 2001	Medical Terminology	2
AH 3121	Immunology for the Medical Laboratory Sciences	3
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 4094W	Seminar in Medical Laboratory Sciences	2
MLSC 4301	Clinical Chemistry and Instrumentation	1-3
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
MLSC 4372	Urinalysis Laboratory	1
MLSC 4500	Laboratory Operations and Professional Practice	2

### Writing in the Major

MLSC 4094W	Seminar in Medical Laboratory Sciences	2
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**Total Credits** **91-102**

## Information Literacy

Competency will be met through successful completion of program major courses.

## Supplemental Academic Standards

The Department of Allied Health Sciences requires a cumulative grade point average of not less than 2.2 in order to gain admission to the professional majors. Thereafter, students must maintain the following standards of scholastic achievement to continue in the professional major. Students who fail to maintain the minimum grade point averages or minimum course standard in any of these areas are subject to dismissal from the professional program and in some cases the Department of Allied Health Sciences.

1. Students must maintain a minimum semester grade point average of 2.2.
2. Students must maintain a minimum cumulative grade point average of 2.2.
3. Students must maintain a minimum major grade point average of 2.2. Major GPA includes all courses offered with the following departmental designations: AH, DGS and MLSC.
4. Students must obtain a "C" or better in all courses required for graduation that are in the Department of Allied Health Sciences (AH, DGS, MLSC).
5. No student may take a course in the Department of Allied Health Sciences for which another course in the department is a prerequisite

unless that student has earned a grade of “C” or better in that prerequisite course.

6. No course in the Department of Allied Health Sciences may be repeated more than once (for a total of two times).

## **Medical Laboratory Sciences Certificate Program**

The Department of Allied Health Sciences also offers a Medical Laboratory Sciences Certificate. See the University of Connecticut Graduate Catalog for more information.

For information about admission and clinical placement requirements, please see “Department of Allied Health Sciences Professional Majors” at the end of the College of Agriculture, Health and Natural Resources section of this catalog.

## **University General Education Requirements**

Every student must meet a set of core requirements to earn a baccalaureate degree, in addition to those required by the student's major course of study and other requirements set by the student's school or college. For more information about these requirements, please see General Education Requirements (<https://catalog.uconn.edu/undergraduate/gen-ed-requirements/>).

## **College of Agriculture, Health and Natural Resources Degree Requirements**

Students must meet a set of requirements established by the college in addition to the University's General Education requirements. For more information, see the College of Agriculture, Health and Natural Resources (<https://catalog.uconn.edu/undergraduate/agriculture-health-natural-resources/#requirementstext>) section of this catalog.