

MEDICAL LABORATORY SCIENCES *SAMPLE SEQUENCE OF COURSES*

Medical Laboratory Sciences Program

Medical Laboratory Sciences (MLS) is a diagnostic branch of healthcare and the instruction within our program provides students with all of the didactic coursework and clinical laboratory training required by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). By successfully completing the program outlined below, students are eligible to sit for the national examination offered by the Board of Certification of the American Society for Clinical Pathology (ASCP) and become a certified Medical Laboratory Scientist.

The Medical Laboratory Sciences major is a professional program offered to students in their junior and senior years. For entry into the competitive program, students should complete the following prerequisite coursework by the beginning of spring semester of your junior year:

- General Chemistry (CHEM 1127Q & CHEM 1128Q - or - CHEM 1124Q & CHEM 1125Q)
- Organic Chemistry (CHEM 2241 - or - CHEM 2443 & CHEM 2444)
- Biochemistry (MCB 2000)
- Principles of Biology (BIO 1107)
- Statistics (STAT 1000Q - or - STAT 1100Q)
- Math (MATH 1060 or higher)
- Genetics (MCB 2400 or MCB 2401)
- Medical Terminology (AH 2001)
- Microbiology (MCB 2610)
- Immunology (AH 3121)
- Research for Health Professionals (AH 4241)

Some flexibility with pre-requisite courses is available. Please contact Bruce Blanchard, MLS Program Director at bruce.blanchard@uconn.edu with questions.

Additionally, students should meet the following criteria:

- Minimum cumulative GPA of 3.0 or higher is considered competitive
- Clarity of written communication
- Quality of References
- Completed all general education requirements
- Completed one W course and one E course

In addition to these prerequisites, specific graduation requirements for all University students may be found in the University's catalog. Applications are accepted in the fall and spring semesters of the sophomore year for program entry the following fall. Following is the suggested course sequencing in the program:

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UConn Graduation Requirements—Are found at catalog.uconn.edu these include major and general education requirements (Content Areas: 1, 2, 3, and 4, **W**riting, **Q**uantitative, **F**oreign Language and **E**nvironmental Literacy)
Students normally average 15 credits per semester over a 4-year period (fall/spring only) to meet the 120 academic credits required.

FIRST YEAR

FALL

CHEM 1124Q or 1127Q General Chemistry I	4
MATH 1060Q Pre-calculus* (or above)	3-4
ENGL 1007, 1010 or 1011	4
GEN ED (CA 1, 2, 4, or E)*	3
INTD 1800 FYE (recommended)	1

Total credits: 15-16

SPRING

CHEM 1125Q or 1128Q General Chemistry II	3-4
BIOL 1107 General Biology I	4
GEN ED (CA 1, 2, 4, or E)*	3
GEN ED (CA 1, 2, 4, or E)*	3

Total credits: 13-14

SECOND YEAR

FALL

CHEM 2241 Organic Chemistry	3
STAT 1000Q or 1100Q Statistics	4
GEN ED (suggest W course)*	3
ELECTIVE*	3

Total credits: 13

SPRING

MCB 2000 Biochemistry	4
ELECTIVE*	3
GEN ED (CA 1, 2, 4, or E)*	3
GEN ED (CA 1, 2, 4, or E)*	3

Total credits: 13

Admission into the junior/senior year requires separate application

THIRD YEAR

FALL

MCB 2400 Human Genetics	3
AH 2001 Medical Terminology	2
AH 3121 Immunology	3
MCB 2610 Microbiology	4
AH 4241 Research for Health Prof.	2

Total credits: 14

SPRING

MLSC 3301 Fund. Med. Lab. Sci.	3
MLSC 3333 Mycology, Parasitology & Virology	3
MLSC 4500 Lab Ops. & Prof. Practice	2
DGS 4234 Diag. Molecular Tech.	3
DGS 4235 Lab in Molecular Diagnostics	2
AH 3025 Hum. Physio. in Health/Disease	3

Total credits: 16

SUMMER SESSION

MLSC 4321 Clinical Immunology	2
MLSC 4341 Clinical Microbiology	4

Total Credits: 6

FOURTH YEAR

FALL

MLSC 3365 Theory of Phlebotomy	1
MLSC 4301 Clinical Chem. & Instrument.	3
MLSC 4311 Hematology	4
MLSC 4351 Transfusion Services	3
MLSC 4371 Urinalysis & Hemostasis	2
MLSC 4094W Seminar in MLS	2

Total credits: 15

SPRING

MLSC 4302 Clinical Chemistry Lab	3
MLSC 4312 Hematology Lab	3
MLSC 4322 Clinical Immunology Lab	1
MLSC 4342 Clinical Microbiology Lab	4
MLSC 4352 Transfusion Services Lab	3
MLSC 4372 Urinalysis Lab	1

Total credits: 15

§ Course sequence is a sample. Actual course sequence subject to change based on advising and student goals.

* These courses need not be taken in the semester indicated; however, it is strongly recommended that they be completed prior to the junior year.

- **Electives** - The total number of elective courses needed to meet the 120 credits for graduation will vary depending on the number of credits assigned to each course. *Students may need to take additional electives.* Students should track credits for graduation carefully and take elective credits accordingly.
- This plan of study assumes the **foreign language** is completed prior to admission to the university. If a language is required, students may elect to take these courses as electives.
- **W course requirement:** Students are required to take 2 “W” skill coded courses. MLSC 4094W satisfies the “W” in the major. Students **must** take the second “W” as a general education or elective.
- **Environmental Literacy:** Students may complete the Environmental Literacy “E” requirement as either a general education requirement, elective or MLS major requirement.

Students can elect to enroll in Summer/Winter sessions. Course options can be found at summerwinter.uconn.edu. Students interested in [Education Abroad](#) should discuss options (semester, winter or summer) with major advisor.

Your academic advisor will work with you every semester to help determine the best sequence of courses specific to your career goals.