

Bachelor of Science in Medical Laboratory Science Medical Laboratory Science Degree Completion Major (BSMLS)

The Bachelor of Science in Medical Laboratory Science degree completion program (previously medical technology) is available for graduates of accredited associate degree university and hospital-based or military Medical Laboratory Technician (MLT) programs. MLT certification is required for admission. The curriculum is designed to meet the needs of local and distant practitioners. Program courses are delivered online to accommodate the schedules of working students. ODUGlobal enrollment coordinators for health sciences programs may be reached at healthsciencesonline@odu.edu (%20healthsciencesonline@odu.edu).

Admission to the University does not constitute admission to the medical laboratory science/medical technology degree completion program. All program prerequisite courses must be completed with a grade of C (2.00) or better. Additionally, applicants must be in good academic standing (cumulative GPA 2.0 or greater).

For consultation and evaluation of eligibility for the degree completion program contact MLS Program Director:

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Requirements

Lower-Division General Education

Written Communication (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#written)	6
Oral Communication (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#oral)	3
Mathematics (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#math)	3
Language and Culture (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#language)	0-6
Information Literacy and Research (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information)	3
Human Behavior (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#behavior)	3
Human Creativity (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#creativity)	3
Interpreting the Past (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret)	3
Literature (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#literature)	3
Philosophy and Ethics (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#philosophy)	3
The Nature of Science (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#nature)	8
Impact of Technology (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#impact)	3

Written Communication: grade of C or better required in both courses

Oral Communication: satisfied through major course requirements

Mathematics: STAT 130M and MATH 102M or MATH 103M grade of C or better required

Philosophy and Ethics: PHIL 345E preferred; 300/400 level P or E course meets upper division general education/Option D

Nature of Science: BIOL 121N and BIOL 122N, CHEM 121N and CHEM 122N, and CHEM 123N and CHEM 124N; grade of C or better required

Impact of Technology: 300/400 level preferred; any 300/400 level T course EXCEPT DNTH 440T meets upper-division general education/Option D

Upper-Division General Education

- Option A. Approved Disciplinary Minor, 12 hours minimum; also second degree or second major.
- Option B. Interdisciplinary Minor (specifically 12 hours, 3 of which may be in the major)
- Option C. An approved Certification Program such as teaching licensure
- Option D. Two Upper-Division Courses from outside the College of Health Sciences and not required by the major (6 hours)

Requirements for Graduation

Requirements for graduation include the following:

- Minimum of 120 credit hours.
- Minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward the major.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward a minor.
- Completion of ENGL 110C, ENGL 211C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better. The W course must be taken at Old Dominion University.
- Completion of Senior Assessment.

Departmental Requirements

BIOL 250 & BIOL 251	Human Anatomy and Physiology I and Human Anatomy and Physiology II	8
CHEM 211 & CHEM 212	Organic Chemistry I Lecture and Organic Chemistry I Laboratory	5
Total Credit Hours		13

Students must complete the following courses with a C or better prior to entering the Medical Laboratory Science/Medical Technology program: BIOL 121N and BIOL 122N, BIOL 250 and BIOL 251, CHEM 121N and CHEM 122N, CHEM 123N and CHEM 124N, CHEM 211 and CHEM 212 and STAT 130M.

Medical Laboratory Science Degree Completion Major

General Education

Complete lower-division requirements	45-51
Complete upper-division requirements	0-6

Departmental Requirements

Complete departmental requirements	13
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Medical Laboratory Science Degree Completion

Electives (including transfer and Prior Learning Assessment Credit from MLT Training Program) 17-23

MLS 309	Medical Bacteriology	3
MLS 310	Urinalysis and Body Fluids	1

MLS 324	Clinical Instrumentation	3
MLS 326	Immunohematology	3
MLS 328	Advanced Hematology and Hemostasis	2
MLS 330	Clinical Immunology/Serology	2
MLS 340	Medical Parasitology, Mycology, and Virology	1
MLS 351	Clinical Biochemistry	3
MLS 402	Survey of Clinical Molecular Techniques	2
MLS 403W	Management in the Clinical Setting	3
MLS 440	Statistical Applications and Data Analysis in the Clinical Laboratory	3
MLS 441	Clinical Hematology Competencies	1
MLS 442	Clinical Microbiology Competencies	1
MLS 443	Clinical Chemistry Competencies	1
MLS 444	Clinical Blood Bank Competencies	1
MLS 457	Medical Laboratory Science Seminar	1
Total Credit Hours		106-124

Note: Junior year core courses that are over three years old prior to graduation, must be reevaluated by the faculty member at ODU in charge of the specialty, in both theoretical knowledge and technical skills. Reevaluation may result in the requirement to repeat and/or audit out-of-date courses. This applies to both part-time and returning Degree Completion Program students.

Elective Credit

Elective credit may be needed to meet the minimum 120 credit hours required for the degree.