

**United States Armed Forces / Old Dominion University
Military Pathway
Catalog Year 2026-2029**

BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCE (DEGREE COMPLETION)

Requirements Potentially Met Outside Classroom		
Military Course, Certification, Experience, or Exam	ODU Equivalent Course	Credits
Lower-Division General Education Requirements		
CLEP ^{1 2 3} College Composition (NOT Modular)	ENGL 110C English Composition	3
DSST Technical Writing	ENGL 231C Writing, Rhetoric, and Research: Special Topics	3
Select specialties	Oral Communication requirement	3
CLEP College Algebra and DSST Principles of Statistics	MATH 102M College Algebra and STAT 130M Elementary Stats	6
CLEP Foreign Languages or military linguist or DLIFLC grad	Language and Culture requirement ⁴	0-6
Current or previous E6-E9	STEM 251G Computer Literacy: Communication & Information	3
Medical specialties	HLTH 120G Information Literacy for Health Professionals	3
CLEP Any Social Sciences exam except Ed Psych	Human Behavior requirement	3
CLEP Any History exam	Interpreting the Past requirement	3
CLEP American or Analyzing & Interpreting Literature	Literature requirement	3
CLEP Chemistry	CHEM 121N and 123N Foundations of Chemistry I & II	6
CLEP Biology	BIOL 121N and 122N General Biology I Lecture and Laboratory	4
Department or Major Requirements		
Medical laboratory specialties	MDTS 401 Molecular Diagnostics Laboratory	3
Medical laboratory specialties	MLS 210 Orientation to Medical Laboratory Science	1
Medical laboratory specialties	MLS 307 Clinical Methods in Microbiology	1
Medical laboratory specialties	MLS 308 Clinical Microbiology	2
Medical laboratory specialties	MLS 311 and 312 Hematology Lecture and Laboratory	4
Medical laboratory specialties	MLS 313 Diagnostic Methods in Urinalysis	1
Medical laboratory specialties	MLS 319 Medical Bacteriology Methods	2
Medical laboratory specialties	MLS 325 Clinical Chemistry I Methods	1
Medical laboratory specialties	MLS 331 Clinical Immunology/Serology Laboratory	1
Medical laboratory specialties	MLS 336 Immunohematology Laboratory	1
Medical laboratory specialties	MLS 339 Medical Parasitology and Mycology Laboratory	1
Medical laboratory specialties	MLS 404, 406, 452, and 454 - Clinical Practica for Hematology, Microbiology, Biochemistry, and Blood Bank	18
Medical laboratory specialties	MLS 420 Blood Collection Techniques	2
Medical laboratory specialties	CHEM 212 Organic Chemistry Laboratory	2
Select medical specialties	BIOL 240 & 241 Fundamentals of Anatomy & Physiology I and II	8
Requirements Potentially Met Outside Classroom		91

¹ A passing CLEP or DSST examination score will satisfy the ODU requirement. See <https://clep.collegeboard.org/> and <https://www.odu.edu/academics/academic-records/score-analysis/clep-dantes> for details.

² A student may forego the CLEP or DSST option and satisfy the requirements by taking the actual courses. If a course is taken elsewhere check first for transfer equivalency here <https://transfer2.odu.edu/equivalency/>.

³ Modern States offers CLEP preparation here <https://modernstates.org/>.

⁴ ODU's Language and Culture requirement can be satisfied by three years of a foreign language or two years of two foreign languages in high school. Students whose native language is not English are exempt from taking a foreign language for general education.

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Requirements Met at ODU

A minimum of 30 credits must be taken at ODU and 120 credits total to earn degree

Short Title	Course Title	Credits
Medical Laboratory Science (Degree Completion) Requirements		
MLS 309	Medical Bacteriology	3
MLS 310	Urinalysis and Body Fluids	1
MLS 324	Clinical Chemistry I	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 Chemistry II	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 (waived if B or higher earned in MLS 328 – not B-)	1
MLS 442	Clinical Microbiology Competencies (waived if B or higher earned in MLS 309 and 340 – not B-)	1
MLS 443	Clinical Chemistry Competencies (waived if B or higher earned in MLS 324 and 351 – not B-)	1
MLS 444	Clinical Blood Bank Competencies (waived if B or higher earned in MLS 330 and 326 – not B-)	1
MLS 457	Medical Laboratory Science Seminar	1
CHEM 122N & 124N	Foundations of Chemistry I and II Laboratories	2
CHEM 211	Organic Chemistry Lecture	3
PHIL 345E	Bioethics (meets upper-division general education requirement)	3
Impact of Technology	Any 300- or 400-level T course except DNTH 440T (meets upper-division general education requirement)	3
Human Creativity	Human Creativity requirement	3
Requirements Met at ODU		45
Total Credits for Degree		120+

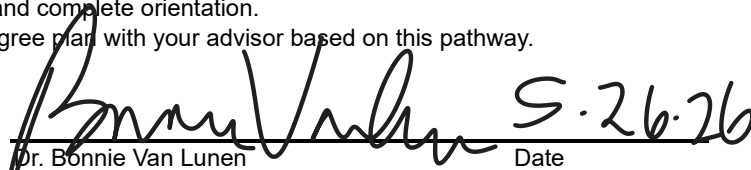
1. Submit application at <https://www.odu.edu/apply/applications>. Order your official high school, college, and military transcripts to be sent to admissions@odu.edu (campus), globaladmissions@odu.edu (ODUGlobal), or mailed to Old Dominion University, Undergraduate Admissions, 1004 Alfred B. Rollins Jr. Hall, Norfolk, Virginia 23529-0050.
2. Electronically sign your application and monitor your application portal for status updates until an admission decision is made.
3. Accept your admission offer, set up your ODU account/email, and complete orientation.
4. Meet with your advisor prior to registration and finalize your degree plan with your advisor based on this pathway.

Harold Riethman

05/22/2026

Dr. Harold Riethman
Professor and Chair
Medical Diagnostic & Translational Sciences
Old Dominion University

Date



Dr. Bonnie Van Lunen
Dean
Ellmer College of Health Sciences
Old Dominion University

Date