

2022-2023 Old Dominion University Catalog

Bachelor of Science in Medical Laboratory Science (w/ VCCS Equivalencies)

Sample four year curriculum with a suggested ordering of courses based on placement into MATH 102M. Students may re-order as needed.

** indicates not automatically waived with transferrable associates degree, C or better required for transfer. Courses in green are met by the completion of an Associate degree (Not eligible for Applied Associate degrees). AS in Health Science or Science recommended for ease of transfer.*

YEAR 1 - FRESHMAN (32 CREDITS)

FALL SEMESTER (16 credits)

General Education Coursework:

VCCS Equivalency:

*ENGL 110C: English Composition I
 *MATH 102M College Algebra or
 MATH 162M Precalculus
 *BIOL 121N/122N: General Biology I
 Information Literacy and Research
 Language and Culture I (May be waived, see
 catalog for details)

ENG 111
 MTH 158 or 161 or 163
 BIO 101
[VCCS Transfer Guide](#)
[VCCS Transfer Guide](#)

SPRING SEMESTER (16 credits)

General Education Coursework:

VCCS Equivalency:

*ENGL 211C or 231C: English Composition II
 *CHEM 121N/122N: General Chemistry I
 Human Creativity
 Interpreting the Past
 Language and Culture II (May be waived, see catalog
 for details)

[VCCS Transfer Guide](#)
 CHM 111
[VCCS Transfer Guide](#)
[VCCS Transfer Guide](#)

YEAR 2 - SOPHOMORE (27 CREDITS)

FALL SEMESTER (14 credits)

General Education Coursework:

VCCS Equivalency:

*CHEM 123N/124N: General Chemistry II
 *BIOL 250: Human Anatomy and Physiology I
 Human Behavior
 Philosophy and Ethics

CHM 112
 BIO 141, 231 or NAS 162
[VCCS Transfer Guide](#)
[VCCS Transfer Guide](#)

SPRING SEMESTER (15 credits)

General Education Coursework:

Application Deadline is February 1st!

VCCS Equivalency:

*CHEM 211 & 212: Organic Chemistry I
 and lab
 *BIOL 251: Human Anatomy and Physiology II
 *STAT 130M: Statistics
 Literature

lecture
 CHM 241 and 243 or 245
 BIO 141, 231 or NAS 162
 MTH 146, 155, 157, 240, 241, 242 or
 245
[VCCS Transfer Guide](#)

YEAR 3 - JUNIOR (42 CREDITS)

FALL SEMESTER (18 credits)

Major Coursework:

No VCCS Equivalency:

MLS 210 Orientation to Medical Laboratory Science
 MLS 307 Clinical Methods in Microbiology
 MLS 308 Clinical Microbiology
 MLS 311/312 Hematology and Lab
 MLS 324 Clinical Instrumentation
 MLS 325 Clinical Instrumentation Methods
 MLS 330/331 Clinical Immunology/Serology
 and lab
 MDTS 401: Molecular Diagnostics Laboratory

SPRING SEMESTER (18 credits)

Major Coursework:

No VCCS Equivalency:

MLS 309 Medical Bacteriology
 MLS 310/313 Urinalysis and Body Fluids/Diagnostic
 Methods in Urinalysis
 MLS 319 Medical Bacteriology Methods
 MLS 326/336 Immunohematology and Lab
 MLS 328 Advanced Hematology and Hemostasis
 MLS 339/340 Parasitology/Mycolgoy, Virology and Lab
 MLS 351 Clinical Biochemistry

SUMMER SEMESTER (6 Credits)

Can also be taken the summer before the program begins with permission of the program director, as space allows

Major Coursework:

No VCCS Equivalency:

MLS 320 Blood Collection Techniques
 MLS 454 Clinical Blood Bank Practicum

YEAR 4 - SENIOR (32 CREDITS)

FALL SEMESTER (12 credits)

Major Coursework:

No VCCS Equivalency:

MLS 403W Mgmt in a Clinical Setting
 MLS 440 Stat Applications and Data Analysis
 in the Clinical Laboratory
 Option D: Option D satisfies the Upper Division General Education
 requirement by completing six (6) credits at the 300-400 level EXCEPT CYTO,
 CHP, DNTH, ENVH, HLTH, MLS, NMED, NURS, PUBH; Must include an Impact
 of Technology "T" course unless lower division gen-eds satisfied by
 transferrable associates degree.

SPRING SEMESTER (15 credits)

Major Coursework:

No VCCS Equivalency:

MLS 404 Clinical Hematology Practicum
 MLS 406 Clinical Micro. Practicum
 MLS 452 Clinical Biochem Practicum
 MLS 457 Medical Laboratory Science Seminar

***PROGRAM ADMISSIONS REQUIREMENTS:** Application deadline is February 1st for fall admission. Program prerequisites may be in progress at the time of application but students must complete the following courses prior to entering the Medical Laboratory Science program: BIOL 121N/122N, BIOL 250 & 251, CHEM 121N/122N, CHEM 123N & 124N, CHEM 211 & 212 and STAT 130M. Program prerequisite requirements must be completed with a C or better; C- is not acceptable. A grade of C (2.00) or better is required in all medical technology course work for continuance in the program. <https://www.odu.edu/mdts/medical-laboratory-science>

NOTE: Foreign language may be satisfied with 3 years of 1 or 2 years of 2 languages in high school; graduation from HS prior to 12/31/85, or with AA or AS Degree from VCCS.

GRADUATION REQUIREMENTS: Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a minimum of 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program for Old Dominion University, completion of ENGL 110C and ENGL 211C, 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.