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: General Education Coursework: VCCS Equivalency:
*ENGL 110C: English Composition I ENG 111 *ENGL 211C or 231C: English Composition II VCCS Transfer Guide
*MATH 102M College Algebra or MTH 158 or 161 or 163 *CHEM 121N/122N: General Chemistry I CHM 111
*MATH 162M Precalculus *BIO 121N/122N: General Biology I BIO 101
Information Literacy and Research VCCS Transfer Guide Human Creativity VCCS Transfer Guide
Language and Culture I (May be waived, see catalog for details) Language and Culture II (May be waived, see catalog for details) VCCS Transfer Guide

SPRING SEMESTER (16 credits)

FALL SEMESTER (14 credits)

General Education Coursework: VCCS Equivalency: General Education Coursework: VCCS Equivalency:
*CHEM 123N/124N: General Chemistry II CHM 112 *CHEM 211 & 212: Organic Chemistry I lecture and lab MTH 241 and 243 or 245
*BIOL 250: Human Anatomy and Physiology I BIO 141, 231 or NAS 161 *BIOL 251: Human Anatomy and Physiology II BIO 141, 231 or NAS 162
Philosophy and Ethics VCCS Transfer Guide Literature VCCS Transfer Guide

SPRING SEMESTER (15 credits)

FALL SEMESTER (18 credits)

Major Coursework: No VCCS Equivalency: Major Coursework: No VCCS Equivalency:
MLS 210 Orientation to Medical Laboratory Science MLS 309 Medical Bacteriology
MLS 307 Clinical Methods in Microbiology MLS 310/313 Urinalysis and Body Fluids/Diagnostic Methods in Urinalysis
MLS 308 Clinical Microbiology MLS 319 Medical Bacteriology Methods
MLS 311/312 Hematology and Lab MLS 326/328 Immunohematology and Lab
MLS 324 Clinical Instrumentation MLS 328 Advanced Hematology and Hemostasis
MLS 325 Clinical Instrumentation Methods MLS 339/340 Parasitology/Mycology, Virology and Lab
MLS 330/331 Clinical Immunology/Serology and lab MLS 351 Clinical Biochemistry
MDTS 401: Molecular Diagnostics Laboratory

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:

Major Coursework: No VCCS Equivalency:
MLS 454 Clinical Blood Bank Practicum

YEAR 2 - SOPHOMORE (27 CREDITS)

FALL SEMESTER (14 credits)

Major Coursework: No VCCS Equivalency:
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 Technology "T" course unless lower division gen-eds satisfied by transferrable associates degree.

SPRING SEMESTER (15 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 Technology "T" course unless lower division gen-eds satisfied by transferrable associates degree.

YEAR 3 - JUNIOR (42 CREDITS)

FALL SEMESTER (18 credits)

Major Coursework: No VCCS Equivalency:
MLS 320 Blood Collection Techniques
MLS 454 Clinical Blood Bank Practicum

SPRING SEMESTER (18 credits)

Major Coursework: No VCCS Equivalency:
MLS 403W Mgmt in a Clinical Setting
MLS 440 Stat Applications and Data Analysis in the Clinical Laboratory

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 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.