

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science/B.S. Medical Laboratory Science

2019-20

A.S. Science Pathway (Medical Laboratory Science)

2019-2020

ADVANCE Program Milestones

1. Students must take SDV 100 or SDV 101 in the first semester at NOVA.
2. Students must begin Developmental coursework in the first semester in ADVANCE at NOVA.
3. Students must take first college-level MTH course and ENG 111 in the semester immediately following the completion of any MTE or ENF courses (excluding summer).
4. In the first 30 credits, students must:
 - a. Complete ENG 111 and ENG 112 with a C or better.
 - b. Complete the first college-level MTH course with a C or better.
5. Students must complete at least six degree-applicable credits with a C or better each fall and spring semester.
6. Students must maintain a 2.5 cumulative GPA.
7. Students must apply for NOVA graduation and complete their Associate's degree.

Responsibility for applying to schools of medical laboratory sciences and gaining admission rests with the student; however, guidance is provided by the medical laboratory sciences program director. Admission to medical laboratory sciences schools is selective, so candidates should strive for strong academic standing (2.5 science GPA or higher). Students who fail to gain admission to a NAACLS-approved school are unable to complete this degree program. Such students may transfer to Biology, BA or the Biology, BS without loss of credits.

Application to medical laboratory sciences schools should be initiated about a year before the desired entrance date. This fact, coupled with the large number of required courses in the pre-professional curriculum, makes it imperative that students in the program consult regularly with their advisor. All medical laboratory sciences majors and prospective majors are urged to enroll in MLAB 200 Introduction to Medical Laboratory Science as early as possible. This course provides information on the profession, as well as the educational demands placed on candidates.

NOVA DEGREE REQUIREMENT SEQUENCE	Credits	Courses	MASON TRANSFER EQUIVALENT	MASON CORE/DEGREE EQUIVALENT
1 SDV Course	1	SDV 100 College Success Skills OR SDV 101 Orientation to XXX	UNIV 100	Elective
2 ENG 111	3	ENG 111 College Composition I	ENGH 101	Written Comm
3 HIS Course	3	HIS 101 History of Western Civilization I OR HIS 102 History of Western Civilization II OR HIS 112 History of World Civilization II	HIST 101 HIST 102 HIST 125	Western Civ
4 MTH 167	5	MTH 167 Pre-Calculus with Trigonometry	MATH 105	Elective
5 ITE 115 or General Education	4	CHM 111 College Chemistry I	CHEM 211-213	NAT SCIENCE
6 ENG 112	3	ENG 112 College Composition II	ENGH XXX	Elective
7 CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm
8 MTH 263	4	MTH 263 Calculus I	MATH 113	Quant
9 Social/Behavioral Sciences #1	3	ECO 201 Principles of Macroeconomics OR ECO 202 Principles of Microeconomics OR GEO 210 Introduction to Cultural Geography OR HIS 121 United States History I OR HIS 122 United States History II OR PLS 135 American National Politics OR PLS 211 United States Government I OR PSY 200 Principles of Psychology OR PSY 230 Developmental Psychology OR SOC 200 Principles of Sociology OR SOC 212 Principles of Anthropology II	ECON 104 ECON 103 GGG 103 HIST 121 HIST 122 GOVT 103 GOVT 103 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
10 Science Course #1	4	CHM 112 College Chemistry II	CHEM 212-214	DEGREE
11 MTH 264	4	MTH 264 Calculus II	MATH 114	Elective

12	Humanities/Fine Arts #1	3	ART 100 Art Appreciation OR ART 101 History and Appreciation of Art I OR ART 102 History and Appreciation of Art II OR CST 130 Introduction to Theatre OR CST 151 Film Appreciation I OR MUS 121 Music Appreciation I	ARTH 101 ARTH 200 ARTH 201 THR 101 ENGL L372 MUSI 101	Elective
13	Math or Science #1	4	BIO 101 General Biology I	BIOL 103	NAT SCIENCE
14	Math or Science #2	4	BIOL 214 Biostatistics for Biology Majors	BIOL 214	DEGREE
15	Math or Science #3	4	BIO 206 Cell Biology	BIOL 213	DEGREE
16	Science Course #2	4	BIO 205 General Microbiology	BIOL L305 BIOL L306	DEGREE
17	Social/Behavioral Sciences #2	3	GEO 220 World Regional Geography OR PLS 140 Introduction to Comparative Gov't OR PLS 241 International Relations I	GGG 101 GOVT 133 GOVT 132	Global
18	Humanities/Fine Arts #2	3	ENG 236 Introduction to the Short Story OR ENG 241 Survey of American Literature I OR ENG 242 Survey of American Literature II OR ENG 251 Survey of World Literature I OR ENG 252 Survey of World Literature II OR ENG 253 Survey of African-American Literature I	ENGH 202	Literature
A.S. SCIENCE DEGREE TOTAL		62			

For academic policies and procedures, please see NOVA catalog - <http://www.nvcc.edu/catalog/index.html>

Students must complete the requirements outlined below, choosing one Professional Study/Concentration option:

Generalist; Molecular Biology; Microbiology; Histotechnology

Not choosing a concentration ("Professional Study: Generalist Option") will provide students generalist training. Upon graduation, the board certification test may be taken and would allow graduates to practice in any area of a hospital or laboratory. Choosing a concentration will allow students to complete their clinical rotations in that specific area. Upon graduation, the Molecular Biology or Microbiology (depending upon the concentration chosen) board certification test may be taken.

MASON DEGREE REQUIREMENT SEQUENCE	Credits	Course	MASON CORE/DEGREE EQUIVALENT	
19	MLAB and BIOL Additional Courses	1	MLAB 200 Introduction to Medical Laboratory Science	DEGREE
20	Gen Ed: Information Technology	3	CDS 130 Computing for Scientists	Info Tech
21	MLAB and BIOL Additional Courses	4	BIOL 311 General Genetics	DEGREE
22	Chemistry	5	CHEM 313 Organic Chemistry I AND CHEM 315 Organic Chemistry Lab I	DEGREE
23	Gen Ed: Written Communication (UL)	3	ENGL 302 Advanced Composition	Written Comm
24	MLAB and BIOL Additional Courses	4	BIOL 430 Advanced Human Anatomy and Physiology I	DEGREE
25	Chemistry	4-5	CHEM 314 Organic Chemistry II AND CHEM 318 Organic Chemistry Lab II OR BIOL 483 Biochemistry	DEGREE
26	MLAB and BIOL Additional Courses	2	MLAB 300 Science Writing	Writing Intensive
27	Gen Ed: Synthesis	3	Approved Synthesis Course*	Synthesis
28	MLAB and BIOL Additional Courses	4	BIOL 431 Advanced Human Anatomy and Physiology II	DEGREE
29	MLAB and BIOL Additional Courses	4	BIOL 452 Immunology AND BIOL 453 Immunology Laboratory	DEGREE
30	Professional Study: Concentration	12	Approved Professional Study course (See: Advisor)**	DEGREE
31	Professional Study: Concentration	12	Approved Professional Study course (See: Advisor)**	DEGREE
32	Professional Study: Concentration	3	Approved Professional Study course (See: Advisor)**	DEGREE
33	Professional Study: Concentration	3	Approved Professional Study course (See: Advisor)**	DEGREE
B.S. MED LAB SCIENCE DEGREE TOTAL		129-130		

Denotes a course that must be taken at George Mason University. Please see your Success Coach to enroll.

For academic policies and procedures, please see Mason catalog - <https://catalog.gmu.edu/policies/>

*For approved Mason Core courses, please visit - <https://catalog.gmu.edu/mason-core/>

**For approved Professional Study concentration courses, please visit: <https://catalog.gmu.edu/colleges-schools/science/biology/medical-laboratory-science-bs/#requirementstext>

General Note: This program requires the equivalent of three years of full-time pre-professional study at the college level preceding a senior year of professional education in an affiliated school of medical laboratory science. All affiliated schools (see below) are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS):

1. Students must complete MLAB 200 Introduction to Medical Laboratory Science and present their biology coursework and supporting requirements with a minimum GPA of 2.00.
2. A grade of 'C' or better must be earned in BIOL 213 Cell Structure and Function (Mason Core) in order to advance to other major requirements. Students may repeat BIOL 213 Cell Structure and Function (Mason Core) once and a second time only with permission of the Department of Biology.
3. Medical laboratory science majors must earn a minimum of 'C' in all biology core courses.

Senior Year: Students should be aware that the senior year spent off campus requires the following special interpretation of university policies. Transfer students must present at least 16 credits of 300 to 400-level biology or chemistry coursework taken at Mason. Students may present no more than 6 credits of 'D' grades in biology and chemistry courses required in three years of pre-professional study. No unsatisfactory grades may be presented for courses in the senior year of professional study. Transfer students entering with more than 45 transfer credits are often unable to complete the pre-professional phase of their program in the usual three years of full-time study. Senior students are registered at the university through special procedures. For details, consult the program director.

Students seeking a bachelor's degree must apply at least 45 credits of upper-level courses (numbered 300 or above) toward graduation requirements