

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science (Biology Track)/B.S. Biology

2018-19

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 125 with a C or better.
 - b. Complete the first college-level MTH course with a C or better.
 - c. Engineering students must begin the calculus sequence and complete Calculus I and II with a B 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

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	DEGREE
6	ENG Course	3	ENG 125 Introduction to Literature	ENGH 201	Literature
7	CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication OR CST 126 Interpersonal Communication	COMM 100 COMM 101 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 Cult 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 GGS 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 ENGH L372 MUSI 101	Arts
13	Math or Science #1	4	BIO 101 General Biology I	BIOL 103	NAT SCIENCE
14	Math or Science #1	4	PHY 201 General College Physics I	PHYS 243-244	DEGREE
15	Math or Science #1	4	PHY 202 General College Physics II	PHYS 245-246	DEGREE
16	Science Course #2	4	BIO 206 Cell Biology	BIOL 213	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	GGS 101 GOVT 133 GOVT 132	Global
18	Humanities/Fine Arts #2	3	ART 101 History and Appreciation of Art I OR ART 102 History and Appreciation of Art II OR MUS 121 Music Appreciation I OR REL 231 Religions of the World I	ARTH 200 ARTH 201 MUSI 101 RELI 212	ELECTIVE
A.S. DEGREE TOTAL (BIOLOGY TRACK)		62			

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

Students may select a concentration:

Bioinformatics, Biopsychology, Biotechnology and Molecular Biology, Environmental and Conservation Biology, Microbiology

NOTE: Concentration selection will effect Biology elective coursework and may require more than the posted total credits.

See Academic Advisor to discuss graduation plan.

MASON DEGREE REQUIREMENT SEQUENCE				Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	Biology Core Courses	4	BIOL 214 Biostatistics for Biology Majors		DEGREE	
20	Gen Ed: Written Communication (Upper level)	3	ENGH 302 Advanced Composition		Written Comm	
21	Biology Core Courses	4	BIOL 311 General Genetics		DEGREE	
22	Chemistry	5	CHEM 313 Organic Chemistry I AND CHEM 315 Organic Chemistry Lab I		DEGREE	
23	Biology Core Courses	5	BIOL 310 Biodiversity AND BIOL 330 Biodiversity Lab & Recitation		DEGREE	
24	Chemistry	5	CHEM 314 Organic Chemistry II AND CHEM 318 Organic Chemistry Lab II		DEGREE	
25	Biology Core Courses	5	BIOL 308 Foundations of Ecology & Evolution		DEGREE	
26	Gen Ed: Synthesis	3	Approved Synthesis Course (See: Mason Catalog)		Synthesis	
27	Biology Electives or Concentration	3	Biology Electives** (Upper-level)		DEGREE	
28	Biology Electives or Concentration	4	Biology Electives with Lab** (Upper-level)		DEGREE	
29	Biology Electives or Concentration	4	Biology Electives** (Upper-level)		DEGREE	
30	Biology Electives or Concentration	4	Biology Electives**		DEGREE	
31	Biology Electives or Concentration	4	Biology Electives with Lab** (Upper-level)		DEGREE	
32	Biology Electives or Concentration	3	Biology Electives**		DEGREE	
33	Gen Ed: Information Technology	3	Approved IT Course (See: Mason Catalog)		DEGREE	
B.S. BIOLOGY DEGREE TOTAL		121				

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/>

**At least 14 credits must be upper division, an at least two of the upper division courses must include a laboratory. Concentration selection may prescribe elective coursework. (See: <https://catalog.gmu.edu/colleges-schools/science/biology/biology-bs/#requirementstext>)

Some Mason Core requirements may already be fulfilled by the major requirements listed above. Students are strongly encouraged to consult their advisors to ensure they fulfill all remaining Mason Core requirements.

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