

# ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science/B.A. Biology

2019-20

## A.S. Science Pathway (Biology)

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.

NOVA DEGREE REQUIREMENT SEQUENCE	Credits	Courses	MASON TRANSFER EQUIVALENT	MASON CORE/DEGREE EQUIVALENT
1	SDV Course	1	SDV 100 College Success Skills <b>OR</b> 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 <b>OR</b> HIS 102 History of Western Civilization II <b>OR</b> 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 112	3	ENG 112 College Composition II	ENGH XXX Elective
7	CST Course	3	CST 100 Principles of Public Speaking <b>OR</b> 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	PSY 200 Principles of Psychology <b>OR</b> PSY 230 Developmental Psychology <b>OR</b> SOC 200 Principles of Sociology	PSYC 100 PSYC 211 SOCI 101 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 <b>OR</b> ART 101 History and Appreciation of Art I <b>OR</b> ART 102 History and Appreciation of Art II <b>OR</b> CST 130 Introduction to Theatre <b>OR</b> CST 151 Film Appreciation I <b>OR</b> 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 #2	4	PHY 201 General College Physics I	PHYS 243-244 DEGREE
15	Math or Science #3	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 <b>OR</b> PLS 140 Introduction to Comparative Gov't <b>OR</b> PLS 241 International Relations I	GGG 101 GOVT 133 GOVT 132 Global & COS Soc/Behav (Select discipline different from Soc/Behav above)
18	Humanities/Fine Arts #2	3	REL 231 Religions of the World I <b>OR</b> REL 232 Religions of the World II <b>OR</b> REL 233 Introduction to Islam	RELI 212 RELI 211 RELI 272 COS Phil/Rel & Non-Western
<b>A.S. SCIENCE DEGREE TOTAL</b>		<b>62</b>		

	MASON DEGREE REQUIREMENT SEQUENCE	Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	Biology Core Courses	4	BIOL 214 Biostatistics for Biology Majors	DEGREE
20	Biology Core Courses	4	BIOL 311 General Genetics	DEGREE
21	Gen Ed: Literature	3	Approved Literature course* (Upper-level)	DEGREE
22	College Requirement: Foreign Language	6	Approved foreign language course*	DEGREE
23	Biology Core Courses	4	BIOL 300 BioDiversity	DEGREE
24	College Requirement: Foreign Language	3	Approved foreign language course*	DEGREE
25	Gen Ed: Written Communication (Upper level)	3	ENGH 302 Advanced Composition	Written Comm
26	Biology Electives	5	Any upper-level BIOL courses with lab	DEGREE
27	Biology Core Courses	5	BIOL 308 Foundations of Ecology & Evolution	Writing Intensive
28	Gen Ed: Synthesis	3	Approved Synthesis Course*	Synthesis
29	College Requirement: Foreign Language	3	Approved foreign language course*	DEGREE
30	Biology Electives	5	Any upper-level BIOL courses	DEGREE
31	General Elective	3	General Electives (Upper-level See: Advisor)	DEGREE
32	General Elective	3	General Electives (Upper-level See: Advisor)	DEGREE
33	General Elective	3	General Electives (Upper-level See: Advisor)	DEGREE
34	Gen Ed: Information Technology	3	Approved IT Course (Upper-level)*	Info Tech
<b>B.S. BIOLOGY DEGREE TOTAL</b>		<b>122</b>		

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 Foreign Language Courses, please visit - <https://catalog.gmu.edu/colleges-schools/humanities-social-sciences/modern-classical-languages/>

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

Students must complete the degree requirements with: A minimum GPA of 2.00 in the BIOL courses listed in the degree program and a minimum GPA of 2.00 in the supporting courses listed in the degree program

Additionally:

1. Biology majors must earn a minimum grade of 'C' in all of the biology core courses. A grade of 'C' or better must be earned in BIOL 213 Cell Structure and Function (Mason Core) in order to advance to other core requirements.
2. Students may not count BIOL 124 Human Anatomy and Physiology and/or BIOL 125 Human Anatomy and Physiology toward any biology major requirement.
3. Students who take BIOL 310 Biodiversity and BIOL 330 Biodiversity Lab and Recitation may not count BIOL 303 Animal Biology and/or BIOL 304 Plant Biology toward any biology major requirement.
4. BIOL 308 Foundations of Ecology and Evolution meets the writing intensive requirement for this major.
5. BIOL 493 Honors Research in Biology, BIOL 495 Directed Studies in Biology, and BIOL 497 Special Problems in Biology do not satisfy the requirements of the BA degree, which state that students must complete at least one upper division course that includes a laboratory. The courses do, however, count as non-laboratory electives.

Students interested in Pre-Health Professions (Pre-Med, Pre-Dentistry, Pre-Podiatry, Pre-Optometry, Pre-Veterinary, Pre-Pharmacy, Pre-Physician Assistant, Pre-Occupational Therapy, and Pre-Physical Therapy) are strongly encouraged to meet with the Health Professions Advisor regarding the appropriate prerequisite courses for their field of choice. For more information, please visit: <https://prehealth.gmu.edu/>

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