

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science / B.A. Biology Pathway
2020-2021

A.S. Science

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 MTT 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	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 Elective	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 General Chemistry I	CHEM 211-213	Major
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	Quantitative
9	Social/Behavioral Sciences #1	3	ECO 201 Principles of Macroeconomics OR ECO 202 Principles of Microeconomics OR HIS 121 United States History I OR HIS 122 United States History II OR PSY 200 Principles of Psychology OR PSY 230 Developmental Psychology OR SOC 200 Principles of Sociology OR SOC 211 Principles of Anthropology I	ECON 104 ECON 103 HIST 121 HIST 122 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
10	Science Course #1	4	CHM 112 General Chemistry II	CHEM 212-214	Major
11	MTH 264 (MTH 245 allowed)	4	MTH 264 Calculus II OR MTH 245 Statistics I	MATH 114 STAT 250	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 #2	4-5	PHY 201 General College Physics I** OR PHY 231 General University Physics I OR GOL 105 Physical Geology	PHYS 243-244 PHYS 160-161 GEOL 101	Major
15	Math or Science #3	4-5	PHY 202 General College Physics II** OR PHY 232 General University Physics II OR GOL 106 Historical Geology	PHYS 245-246 PHYS 260-261 GEOL 102	Major
16	Science Course #2	4	BIO 206 Cell Biology	BIOL 213	Major

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 & COS Soc/Behav
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 62-64

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

B.A. Biology

	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	Biology Core Courses	4	BIOL 214 Biostatistics for Biology Majors	Major
20	Biology Core Courses	4	BIOL 311 General Genetics	Major
21	College Requirement: Philosophy or Religious Studies & Non-Western	3	Approved PHIL or RELI courses*** (Upper-level)	COS Phil/Rel & Non-Western
22	College Requirement: Foreign Language	6	Approved foreign language course****	Major
23	Biology Core Courses	4	BIOL 300 BioDiversity	Major
24	College Requirement: Foreign Language	3	Approved foreign language course****	Major
25	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition	Written Comm
26	Biology Electives	4	Any upper-level BIOL courses with lab	Major
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****	Major
30	Biology Electives	4	Any upper-level BIOL courses	Major
31	General Elective	3	General Electives (Upper-level See: Advisor)	Major
32	General Elective	3	General Electives (Upper-level See: Advisor)	Major
33	General Elective	3	General Electives (Upper-level See: Advisor)	Major
34	General Elective	3	General Electives (Upper-level See: Advisor)	Major
35	Gen Ed: Information Technology	3	Approved IT Course (Upper-level)***	Info Tech

B.A. BIOLOGY DEGREE TOTAL 123-124

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/>

*Students who are placed directly into MTH 263 may take BIO 102, BIO 110, or BIO 120 instead of MTH 167.

**Students intending to pursue a career in a clinical profession (pre-med, pre-physical therapy, pre-dental, etc.) should elect to take PHY 201 and 202.

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

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

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 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.