

A NOVA | MASON PARTNERSHIP

A.S. Biology / B.A. Biology Pathway 2024-2025

A.S. Biology

ADVANCE Program Milestones

ADVANCE Milestone Requirements: All ADVANCE students must adhere to the following requirements. For Milestones #1-#3, failure to meet these milestones will prevent a student from matriculating to Mason and/or result in termination from ADVANCE. For Milestones #4-#7, failure to meet these milestones may delay matriculation to Mason.

1. Students must complete their NOVA degree within 4 years of being admitted into ADVANCE. Students are <u>highly encouraged</u> to be continuously enrolled at NOVA/Mason to support progress towards degree completion.

2. Students must maintain a minimum 2.5 cumulative GPA at NOVA and must have a minimum 2.5 GPA upon matriculation to Mason.

3. Students who wish to enroll at Mason for the fall semester must apply for NOVA spring graduation by March 1 or summer graduation by June 1. Students who wish to enroll at Mason for the spring semester must apply for NOVA fall graduation by October 1.

4. Students must begin developmental coursework no later than the first semester in ADVANCE at NOVA.

5. Students must take first college-level MTH course and ENG 111 in the semester immediately following the completion of any MDE or EDE courses (excluding summer).

6. In the first 30 credits, students must complete ENG 111 and ENG 112 with a C or better.

7. Students must complete a Mason Core Quantitative Reasoning course equivalent with a C or better no later than one semester before NOVA graduation. Refer to your pathway to select the appropriate MTH course(s).

	NOVA DEGREE			MASON	MASON
	REQUIREMENT	Credits	Courses	TRANSFER	CORE/DEGREE
	REQUIREIVIENT			EQUIVALENT	EQUIVALENT
1	SDV Course	1	SDV 100 College Success Skills OR SDV 101 Orientation to XXX	UNIV 100	General Elective
2	ENG 111	3	ENG 111 College Composition I ¹	ENGH XXX	General Elective
3	MTH 167	5	MTH 167 Pre-Calculus with Trigonometry ²	MATH 105	General Elective
4	СНМ 111	4	CHM 111 General Chemistry I	CHEM 211-213	Major & Nat Science
5	HIS Elective	3	HIS 101 Western Civilizations Pre-1600 CE OR HIS 102 Western Civilizations Post-1600 CE OR HIS 112 World Civilizations Post-1500 CE (recommended)	HIST 101T HIST 102T HIST 125	Global History
6	ENG 112	3	ENG 112 College Composition II ¹	ENGH 101	Written Comm
7	МТН 263	4	MTH 263 Calculus I	MATH 113 CHEM 212-214	Major & Quantitative
8	CHM 112	4	CHM 112 General Chemistry II		Major
9	BIO 101	4	BIO 101 General Biology I	BIOL 103/105	Major & Nat Science
10	Humanities/Fine Arts #1	3-4	ART 100 Art Appreciation OR ART 101 History of Art: Prehistoric to Gothic OR ART 102 History of Art: Renaissance to Modern OR CST 130 Introduction to Theatre OR CST 151 Film Appreciation I OR MUS 121 Music in Society OR Foreign Language 201 (<i>if student places into language at 201/202</i> <i>level</i>) ³	ARTH 101 ARTH 200 ARTH 201 THR 101 ENGH L372 MUSI 101 GMU Equivalent	Arts or COS BA Foreign Language
11	MTH 264 or MTH 245	3-4	MTH 245 Statistics I OR MTH 264 Calculus II	STAT 250 MATH 114	General Elective
12	BIO 102 or BIO 120	4	BIO 102 General Biology II	BIOL 102	Major
13	CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Human Communication	COMM 100 COMM 101	Oral Comm

For academic policies and procedures, please see NOVA catalog - http://www.nvcc.edu/catalog/index.html B.A. Biology Students may select a concentration in Biological Illustration. See your Mason Biology advisor for more information.					
			PLS 241 Introduction to International Relations	GOVT 132	
18	Social/Behavioral Sciences #2	3		GGS 101 GOVT 133	General Elective
	Humanities/Fine Arts #2		Foreign Language 202 (<i>if student places into language at 201/202</i> <i>level</i>) ³		
		ENG 225 Reading Literature: Culture and Ideas OR ENG 245 British Literature OR ENG 246 American Literature OR ENG 255 World Literature OR Arts #2 3-4 ENG 258 African American Literature OR ENG 275 Women in Literature OR Any 200-Level ENG Literature course ⁴ OR			
				ENGH 202 or FRLN L330 (ENG 255 only) GMU Equivalent	Literature or CO BA Foreign Language
17			ENG 258 African American Literature OR		
			ENG 255 World Literature OR		
			ENG 246 American Literature OR		
	(NOVA Catalog: MTH 264, MTH 245, or Lab Science)	4	GOL 106 Historical Geology	GEOL 102/104	Major
16			PHY 202 General College Physics II OR GOL 105 Physical Geology OR	GEOL 101/103	
	Science Course		2	PHYS 245-244 PHYS 245-246	
12	BIO 200	4	PHY 201 General College Physics I OR	PHYS 243-244	Iviajoi
15	Social/Behavioral Sciences #1	3	BIO 206 Cell Biology	BIOL 213	Soc/Behav Major
			SOC 200 Introduction to Sociology OR SOC 211 Cultural Anthropology	ANTH 114	
			PSY 230 Developmental Psychology OR	SOCI 101	
			PSY 200 Principles of Psychology OR	PSYC 211	
			PLS 135 U.S. Government and Politics OR	PSYC 100	
14			HIS 122 United States History Since 1865 OR	GOVT 103	
			HIS 121 United States History to 1877 OR	HIST 121	
			Geography OR	HIST 121	
			GEO 210 People and the Land: An Introduction to Cultural	GGS 103	
			ECO 202 Principles of Microeconomics OR	ECON 104 ECON 103	

	Students may select a concentration in Biological Illustration. See your Mason Biology advisor for more information.				
	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT	
19	Biology Core Courses	4	BIOL 214 Biostatistics for Biology Majors	Major	
20	Additional Natural Science	3	Approved Additional Natural Science ⁵	Major	
21	Biology Core Courses	4	BIOL 311 General Genetics	Major	
22	College BA Requirement	3	Select additional Upper Level Mason Core Arts, Literature, Global Contexts, or Social and Behavioral Sciences ⁵ (See: Advisor)	COS BA Requirment	
23	College Requirement: Foreign Language	0-6	Approved foreign language course ^{3,5} (required at Mason if foreign language requirement is not completed at NOVA)	COS BA Foreign Lang.	
24	Biology Core Courses	4	BIOL 300 BioDiversity	Major	
25	College Requirement: Foreign Language or Gen Ed: Arts	3	Approved foreign language course ^{3,5} OR General Elective <i>(if foreign language was taken at NOVA)</i>	COS BA Foreign Lang. or General Elective	
26	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition	Written Comm	
27	Biology Electives	4	Any upper-level BIOL courses with lab	Major	
28	Biology Core Courses	5	BIOL 308 Foundations of Ecology & Evolution	Writing Intensive	
29	Gen Ed: Apex	3	Approved Apex Course ⁶	Apex	

	College Requirement: Foreign Language or Literature	0-3	Approved foreign language course ^{3,5} OR General Elective <i>(if foreign language was taken at NOVA)</i>	COS BA Foreign Lang. or General Elective
31	Biology Electives	4	Any upper-level BIOL courses	Major
32	College BA Requirement	3	Select additional Upper Level Mason Core Arts, Literature, Global Contexts, or Social and Behavioral Sciences ⁵ (Course must be in a different Mason Core category than selected in line 21; See: Advisor)	COS BA Requirement
33	General Elective	3	General Electives (Upper-level See: Advisor)	General Electives
34	General Elective	3	General Electives (Upper-level See: Advisor)	General Electives
35	General Elective	3	General Electives (Upper-level See: Advisor)	General Electives
36	Gen Ed: Information Technology	3	Approved Info Tech Course (Upper-level) ⁶	Major & Info Tech

B.A. BIOLOGY DEGREE TOTAL 120 - 129

Important Academic Information:

¹Students who complete ENG 111 after Spring 2024 will earn ENGH elective for ENG 111 and ENGH 101 for ENG 112.

²Students may also use MTH 161/162.

³ Students who opt to complete the language courses at NOVA may need to replace these credits with general electives at Mason to reach 120 total credits. Consult with your ADVANCE Coach or Biology advisor.

⁴200-level ENG literature classes include: ENG 225, ENG 230, ENG 236, ENG 237, ENG 245, ENG 246, ENG 250, ENG 255, ENG 256, ENG 257, ENG 258, ENG 271, ENG 275, and ENG 279.

⁵For Approved Additional Natural Science options, the COS College BA Requirement options, and the approved Foreign Language courses, please visit: https://catalog.gmu.edu/colleges-schools/science/biology/biology-ba/#requirementstext. If foreign language completed at Mason, students may opt to take a two course, 101/102 sequence if available.

⁶For approved Mason Core courses, please visit - https://catalog.gmu.edu/mason-core/

General Education Waiver Policy and Guidance:

• Students who complete a VCCS transfer associate degree (AS, AA, or AFA) will receive a waiver of the Foundation and Exploration (lower division) Mason Core general education categories, which can be found here: https://catalog.gmu.edu/mason-core/. To be eligible for the waiver, the students must provide the Mason Office of Admissions with a final, official transcript reflecting the degree conferral date. As a prerequisite for ENGH 302, ENGH 101 is not waived. Students must complete ENGH 100 or ENGH 101, or an equivalent, with a C or higher.

• When a course fulfills a Mason Core requirement and a major or college requirement (e.g. Major & Quant), students must complete the course listed on the pathway to fulfill the major/college requirement. Courses that fulfill only Mason Core Foundation and Exploration categories are recommendations. In most pathways, ADVANCE students must complete a Quantitative Reasoning course to matriculate through ADVANCE.

• ADVANCE students must complete the associate degree indicated on their pathway (see the ADVANCE Program Milestones listed above). Students who withdraw from ADVANCE and transfer without the associate degree or UCGS are required to complete each Mason Core general education category.

Additional General Notes & Resources:

• 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 nonlaboratory 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 interested in pursuing licensure to teach at the secondary level may add the Undergraduate Certificate: Secondary Education - Biology to this degree. For more information visit: https://education.gmu.edu/secondary-education-6-12/academics/. Some certificate courses can be used to fulfill general elective requirements, but additional credits may be needed to complete the certificate. Students interested in teacher licensure should meet with a Mason pre-teacher advisor. Contact information: https://cehd.gmu.edu/teacher/advising/advising-appointment/

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

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