

# ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science / B.S. Environmental Sciences  
Pathway  
2022-2023

## A.S. Science

### 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 highly encouraged 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 REQUIREMENT	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	General Elective
2	ENG 111	3	ENG 111 College Composition I	ENGH 101	Written Comm
3	ITE 152 or General Education Elective	3	ITE 152 Introduction to Digital and Information Literacy and Computer Applications	IT 104	Info Tech
4	MTH 167	5	MTH 167 PreCalculus with Trigonometry <sup>1</sup>	MATH 105	General Elective
5	MTH 263	4	MTH 263 Calculus I	MATH 113	Quantitative
6	ENG 112	3	ENG 112 College Composition II	ENGH XXX	General Elective
7	MTH 264	4	MTH 264 Calculus II	MATH 114	Major
8	Science Course #1	4	CHM 111 General Chemistry I <sup>2</sup>	CHEM 211-213	Nat Science
9	Social/Behavioral Sciences #1	3	ECO 201 Principles of Macroeconomics <b>OR</b> ECO 202 Principles of Microeconomics <b>OR</b> GEO 210 People and the Land: An Introduction to Cultural Geography <b>OR</b> HIS 121 United States History to 1877 <b>OR</b> HIS 122 United States History Since 1865 <b>OR</b> PLS 135 U.S. Government and Politics <b>OR</b> PSY 200 Principles of Psychology <b>OR</b> PSY 230 Developmental Psychology <b>OR</b> SOC 200 Introduction to Sociology <b>OR</b> SOC 211 Cultural Anthropology	ECON 104 ECON 103 GGG 103 HIST 121 HIST 122 GOVT 103 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
10	HIS Course	3	HIS 101 Western Civilizations Pre-1600 CE <b>OR</b> HIS 102 Western Civilizations Post-1600 CE <b>OR</b> HIS 112 World Civilizations Post-1500 CE	HIST 101 HIST 102 HIST 125	Western Civ
11	Humanities/Fine Arts #1	3	ART 100 Art Appreciation <b>OR</b> ART 101 History of Art: Prehistoric to Gothic <b>OR</b> ART 102 History of Art: Renaissance to Modern <b>OR</b> CST 130 Introduction to Theatre <b>OR</b> CST 151 Film Appreciation I <b>OR</b> MUS 121 Music in Society	ARTH 101 ARTH 200 ARTH 201 THR 101 ENGH L372 MUSI 101	Arts
12	Math or Science #1	4	EVPP 210 Environmental Biology: Molecules and Cells <sup>2</sup>	EVPP 210	Major

13	Math or Science #2	4	CHM 112 General Chemistry II	CHEM 212-214	Nat Science
14	Social/Behavioral Sciences #2	3	GEO 220 World Regional Geography <b>OR</b> PLS 140 Introduction to Comparative Politics <b>OR</b> PLS 241 Introduction to International Relations	GGS 101 GOVT 133 GOVT 132	Global
15	CST Course	3	CST 100 Principles of Public Speaking <b>OR</b> CST 110 Introduction to Human Communication	COMM 100 COMM 101	Oral Comm
16	Humanities/Fine Arts #2	3	ENG 225 Reading Literature: Culture and Ideas <b>OR</b> ENG 245 British Literature <b>OR</b> ENG 246 American Literature <b>OR</b> ENG 255 World Literature <b>OR</b> ENG 258 African American Literature <b>OR</b> ENG 275 Women's Literature <b>OR</b> Any 200-Level ENG Literature course <sup>3</sup>	ENGH 202 or FRLN L330 (ENG 255 only)	Literature
17	Math or Science #3	4	BIOL 214 Biostatistics for Biology Majors	BIOL 214	Major
18	Science Course #2	4	GOL 106 Historical Geology	GEOL 102/104	Major

**A.S. SCIENCE DEGREE TOTAL 61**

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

## B.S. Environmental Science

**Concentrations:** Conservation; Ecological Science; Environmental Health; Human and Ecosystem Response to Climate Change; Marine, Estuarine and Freshwater Ecology; Wildlife

	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	Gen Ed: Written Communication (Upper-Level)	3	ENGH 302 Advanced Composition	Written Comm
20	Major Requirements	3	CDS 130 Computing for Scientists	Major
21	Major Requirements	4	EVPP 301 Environmental Science: Biological Diversity and Ecosystems	Major
22	Major Requirements	4	EVPP 305 Environmental Microbiology Essentials <b>AND</b> EVPP 306 Environmental Microbiology Essentials Lab	Major
23	Major Requirements	3	EVPP 337 Environmental Policy Making in Developing Countries	Major
24	Major Requirements	4	EVPP 302 Environmental Science: Biomes and Human Dimensions	Major
25	Major Requirements	3	EVPP 336 Human Dimensions of the Environment <b>OR</b> EVPP 338 Economics of Environmental Policy <b>OR</b> EVPP 362 Intermediate Environmental Policy <b>OR</b> EVPP 475 Global Biodiversity Governance	Major
26	Major Requirements	3	EVPP 361 Introduction to Environmental Policy	Major
27	Major Requirements	3	EVPP 430 Fundamentals of Environmental Geographic Information Systems	Major
28	Major Requirements	3	EVPP 377 Applied Ecology	Major
29	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
30	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
31	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
32	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
33	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
34	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
35	Concentration Requirements	3	Approved Concentration Course <sup>4</sup>	Major
36	Concentration Requirements/General Elective	3	Approved Concentration Course or General Elective (See: Advisor) <sup>4</sup>	Major or General Elective
37	Concentration Requirements/General Elective	3	Approved Concentration Course or General Elective (See: Advisor) <sup>4</sup>	Major or General Elective

38	Experiential Learning	1	EVPP 395 Undergraduate Research in Environmental Science and Policy <b>OR</b> EVPP 494 Internship	Major
39	Gen Ed: Synthesis/Core Requirement <sup>5</sup>	4	EVPP 378 RS: Ecological Sustainability <b>OR</b> EVPP 480 Sustainability in Action	Synthesis
<b>B.S. ENVR SCIENCE DEGREE</b> <b>TOTAL</b>				
Denotes a course that must be taken at George Mason University while attending NOVA. Failure to complete your co-enrollment course(s) while attending NOVA can significantly affect your timeline for Mason graduation. Please see your ADVANCE Coach for more information and to enroll.				
<b>Important Academic Information:</b> <sup>1</sup> Students who place directly into MTH 263 may take any transferrable Physical/Life Science approved to fulfill the Science, AS degree requirement in place of MTH 167, including BIO 101, BIO 102, BIO 110, BIO 120, GOL 105, GOL 225, PHY 201, PHY 202, PHY 241, or PHY 242. <sup>2</sup> It is recommended that students take CHM 111 at NOVA and EVPP 210 at Mason (co-enrollment course) in the same semester. <sup>3</sup> 200-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. <sup>4</sup> For approved Concentration courses, please visit - <a href="https://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-bs/">https://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-bs/</a> <sup>5</sup> CONS 490 RS: Integrated Conservation Strategies may complete this requirement if attending the Smithsonian-Mason Semester.				
<b>Additional General Notes &amp; Resources:</b> <ul style="list-style-type: none"> <li>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.</li> <li>ADVANCE students who earn at least a 2.85 final, cumulative GPA and no more than 9 credits of unrepeatd D/F grades may be eligible to receive a waiver for any lower-level Mason Core courses not already completed. To be eligible for the Mason Core waiver, students must also complete the requirements of the AA or AS degree listed on their pathway, and apply to graduate from NOVA by the deadline (see milestone #3). Students must provide the Office of Admissions with a final, official transcript reflecting the degree conferral date and a cumulative NOVA GPA at or above 2.85.</li> <li>For academic policies and procedures, please see Mason catalog - <a href="https://catalog.gmu.edu/policies/">https://catalog.gmu.edu/policies/</a></li> <li>Students seeking a bachelor's degree must apply at least 45 credits of upper-level courses (numbered 300 or above) toward graduation.</li> </ul>				