ADVANCE
A NOVA | MASON PARTNERSHIP

A.S. Science / B.S. Atmospheric Sciences 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 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 263**	4	MTH 263 Calculus I	MATH 113	Quantitative
5	**MTH 167 or Science**	4	CHM 111 College Chemistry I	CHEM 211-213	Nat Science
6	**ITE 115 or General Education**	3	CDS 130 Computing For Scientists **(offered online)**	CDS 130	Info Tech
7	**ENG 112**	3	ENG 112 College Composition II	ENGH XXX	Elective
8	**CST Course**	3	CST 100 Principles of Public Speaking **OR** CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm
9	**MTH 264**	4	MTH 264 Calculus II	MATH 114	Major
10	**Social/Behavioral Sciences #1**	3	ECO 201 Principles of Macroeconomics **OR** ECO 202 Principles of Microeconomics **OR** GEO 210 Introduction to Cultural 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 211 Principles of Anthropology I	ECON 104 ECON 103 GGS 103 HIST 121 HIST 122 GOVT 103 GOVT 103 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
11	**Math or Science #1**	5	PHY 231 General University Physics I	PHYS 160-161-266	Major
12	**Science Course #1**	4	CLIM 111/112 Introduction to the Fundamentals of Atmospheric Science + Lab ***(Typically offered in the Fall Semester at Mason)***	CLIM 111-112	Nat Science
13	**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
14	**Math or Science #2**	4	MTH 265 Calculus III	MATH 213	Major

15	**Math or Science #3**	3	MTH 245 Statistics I	STAT 250	Major
16	**Science Course #2**	5	PHY 232 General University Physics II	PHYS 260-261-XXX	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
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		**61**			

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

B.S. Atmospheric Sciences

Concentrations: Meteorology; Computational Atmospheric Sciences

	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	**Gen Ed: Written Communication (Upper level)**	3	ENGH 302 Advanced Composition	Written Comm
20	**Atmospheric Sciences Core**	4	CLIM 102 Introduction to Global Climate Change Science	Major
21	**Atmospheric Sciences Core**	4	CLIM 301 Weather Analysis and Prediction	Major
22	**Required Elective***	3	Approved Required Elective course**	Major
23	**Atmospheric Sciences Core**	3	CLIM 429 Atmospheric Thermodynamics	Major
24	**Options**	3	Approved Options course**	Major
25	**Required Elective***	3	Approved Required Elective course**	Major
26	**Atmospheric Sciences Core**	3	CLIM 411 Atmospheric Dynamics	Major
27	**Options**	3	Approved Options course**	Major
28	**Required Elective***	3	Approved Required Elective course**	Major
29	**Options**	3	Approved Options course**	Major
30	**General Elective**	3	General Electives (Upper-level See: Advisor)	Major
31	**General Elective**	3	General Electives (Upper-level See: Advisor)	Major
32	**Atmospheric Sciences Core**	3	PHYS 475 Atmospheric Physics	Major
33	**Atmospheric Sciences Core**	3	CLIM 408 Senior Research	Major
34	**General Elective**	3	General Electives (Upper-level See: Advisor)	Major
35	**General Elective**	3	General Electives (Upper-level See: Advisor)	Major
36	**General Elective**	3	General Electives (See: Advisor)	Major
37	**Gen Ed: Synthesis**	3	Approved Synthesis Course**	Synthesis
B.S. ATMOSPHERIC SCIENCES DEGREE TOTAL		**120**		

Denotes a course that must be taken at George Mason University. Please see your Success Coach to enroll.

***Required electives must be independent of courses taken in the selected option (Meteorology or Computational Atmospheric Sciences).**

****For approved Options and Required Electives and other Required Courses, please visit - https://catalog.gmu.edu/colleges-schools/science/atmospheric-oceanic-earth-sciences/atmospheric-sciences-bs/#requirementstext**

General Note: A GPA of at least 2.00 is required for all core courses, with an overall GPA of at least 2.50.

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 requirements.