

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 GGG 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 |

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|----|-------------------------------|---|--|---------------------------------|------------|
| 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.