

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science / B.S. Neuroscience Pathway
2021-2022

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-#6, 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 graduation by March 1 for spring graduation or June 1 for summer graduation. Students who wish to enroll at Mason for the spring semester must apply for NOVA graduation by October 1 for winter graduation.
4. Students must begin developmental coursework in 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:
 - 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.

| | 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 | General Elective |
| 2 | ENG 111 | 3 | ENG 111 College Composition I | ENGH 101 | Written Comm |
| 3 | ITE 115 or ITE 119 or General Education Elective | 4 | BIO 101 General Biology I | BIOL 103/105 | General Elective |
| 4 | MTH 167 or Science | 5 | MTH 167 Pre-Calculus with Trigonometry | 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 245 Required (NOVA Catalog: MTH 264 or MTH 245) | 3 | MTH 245 Statistics I | STAT 250 | Major |
| 8 | Science Course #1 | 4 | CHM 111 General Chemistry I | CHEM 211-213 | Nat Science |
| 9 | Social/Behavioral Sciences #1 | 3 | PSY 200 Principles of Psychology | PSYC 100 | Soc/Behav |
| 10 | 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 |
| 11 | 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 |
| 12 | Math or Science #1 | 4 | PHY 201 General College Physics I | PHYS 243-244 | Major |
| 13 | Math or Science #2 | 4 | BIO 206 Cell Biology | BIOL 213 | Major |
| 14 | Social/Behavioral Sciences #2 | 3 | GEO 220 World Regional Geography OR PLS 140 Introduction to Comparative Politics OR PLS 241 International Relations I | GGG 101 GOVT 133 GOVT 132 | Global |
| 15 | CST Course | 3 | CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication | COMM 100 COMM 101 | Oral Comm |

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|----|-------------------------|---|--|--------------|-------------|
| 16 | 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 |
| 17 | Math or Science #3 | 4 | CHM 112 General Chemistry II | CHEM 212-214 | Nat Science |
| 18 | Science Course #2 | 4 | PHY 202 General College Physics II | PHYS 245-246 | 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. Neuroscience

Students should consult with an advisor to choose appropriate elective courses at Mason, which must be approved by the director of the program. A sample of possible electives is given below. Students may apply no more than 6 credits of courses with a grade of D to this requirement. Students intending to pursue a doctorate in neuroscience or a medical degree are advised to take CHEM 313/315.

| | MASON DEGREE REQUIREMENT | Credits | Course | MASON CORE/DEGREE EQUIVALENT |
|----|---|---------|--|------------------------------|
| 19 | Gen Ed: Written Communication (Upper-level) | 3 | ENGH 302 Advanced Composition | Written Comm |
| 20 | Foundation Courses | 4 | BIOL 311 General Genetics OR BIOL 322 Developmental Biology OR BIOL 326 Animal Physiology OR BIOL 425 Human Physiology OR BIOL 430 Advanced Human Anatomy and Physiology I | Major |
| 21 | Foundation Courses | 3 | PSYC 375 Brain and Sensory Processes | Major |
| 22 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ | Major |
| 23 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ | Major |
| 24 | Foundation Courses | 3 | PSYC 376 Brain and Behavior | Major |
| 25 | Foundation Courses | 2 | PSYC 373 Biopsychology Laboratory | Major |
| 26 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ (Upper-level) | Major |
| 27 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ (Upper-level) | Major |
| 28 | General Elective | 3 | General Electives (Upper-level See: Advisor) | Major |
| 29 | Foundation Courses | 3 | NEUR 327 Cellular, Neurophysiological, and Pharmacological Neuroscience | Major |
| 30 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ (Upper-level) | Major |
| 31 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ (Upper-level) | Major |
| 32 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ (Upper-level) | Major |
| 33 | Neuroscience Electives | 3 | Approved Neuroscience Elective course ¹ (Upper-level) | Major |
| 34 | Foundation Courses | 3 | NEUR 335 Molecular, Developmental, and Systems Neuroscience | Major |
| 35 | Foundation Courses | 3 | NEUR 410 Current Topics in Neuroscience OR NEUR 411 Seminar in Neuroscience | Writing Intensive |
| 36 | General Elective | 3 | General Electives (Upper-level See: Advisor) | General Elective |
| 37 | Gen Ed: Information Technology | 3 | CDS 130 Computing for Scientists | Info Tech & Major |
| 38 | Gen Ed: Synthesis | 3 | Approved Synthesis Course ¹ | Synthesis |

B.S. NEUROSCIENCE DEGREE TOTAL 121

Important Academic Information:

¹For approved Neuroscience Electives and Mason Core courses, please visit - <https://catalog.gmu.edu/colleges-schools/science/neuroscience-program/neuroscience-bs/#requirementstext>

Additional General Notes & Resources:

- 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/>
- ADVANCE students who earn at least a 2.85 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 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 meet these criteria by the time of matriculation to Mason and provide the Office of Admissions a final, official transcript reflecting the degree conferral date.
- 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.

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