

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science/B.S. Neuroscience

2019-20

A.S. Science Pathway (Neuroscience) 2019-2020

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 MTE 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 SEQUENCE	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 167 or Science	5	MTH 167 Pre-Calculus with Trigonometry	MATH 105 Elective
5	ITE 115 or General Education	3	CDS 130 Computing for Scientists	CDS 130 Info Tech
6	ENG 112	3	ENG 112 College Composition II	ENGH XXX Elective
7	CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101 Oral Comm
8	MTH 263	4	MTH 263 Calculus I	MATH 113 Quant
9	Social/Behavioral Sciences #1	3	PSY 200 Principles of Psychology	PSYC 100 Soc/Behav
10	Math or Science #1	4	CHM 111 College Chemistry I	CHEM 211-213 NAT SCIENCE
11	MTH 264 or MTH 245	3	MTH 245 Statistics I	STAT 250 DEGREE
12	Science Course #1	4	PHY 201 General College Physics I	PHYS 243-244 DEGREE
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	BIOL 213 Cell Structure and Function	BIOL 213 DEGREE
15	Math or Science #3	4	CHM 112 College Chemistry II	CHEM 212-214 NAT SCIENCE
16	Science Course #2	4	PHY 202 General College Physics II	PHYS 245-246 DEGREE
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	GGG 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		60		

Students should consult with an advisor to choose appropriate elective courses, 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 SEQUENCE	Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition	Written Comm
20	Foundation Courses	4	BIOL 311 General Genetics OR BIOL 430 Advanced Human Anatomy and Physiology I	DEGREE
21	Foundation Courses	3	PSYC 375 Brain and Sensory Processes	DEGREE
22	Neuroscience Electives	3	Approved Neuroscience Elective course*	DEGREE
23	Neuroscience Electives	3	Approved Neuroscience Elective course*	DEGREE
24	Foundation Courses	3	PSYC 376 Brain and Behavior	DEGREE
25	Foundation Courses	2	PSYC 373 Biopsychology Laboratory	DEGREE
26	Neuroscience Electives	3	Approved Neuroscience Elective course* (Upper-level)	DEGREE
27	Neuroscience Electives	3	Approved Neuroscience Elective course* (Upper-level)	DEGREE
28	General Elective	3	General Electives (Upper-level See: Advisor)	DEGREE
29	Foundation Courses	3	NEUR 327 Cellular, Neurophysiological, and Pharmacological Neuroscience	DEGREE
30	Neuroscience Electives	3	Approved Neuroscience Elective course* (Upper-level)	DEGREE
31	Neuroscience Electives	3	Approved Neuroscience Elective course* (Upper-level)	DEGREE
32	Neuroscience Electives	3	Approved Neuroscience Elective course* (Upper-level)	DEGREE
33	Neuroscience Electives	3	Approved Neuroscience Elective course* (Upper-level)	DEGREE
34	Foundation Courses	3	NEUR 335 Molecular, Developmental, and Systems Neuroscience	DEGREE
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)	DEGREE
37	General Elective	3	General Electives (See: Advisor)	DEGREE
38	Gen Ed: Synthesis	3	Approved Synthesis Course*	Synthesis
B.S. NEUROSCIENCE DEGREE TOTAL		120		

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

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

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

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