

ADVANCE AGREEMENT

To maintain my enrollment in the ADVANCE/NOVA- MASON partnership, I acknowledge that I will:

- Enroll in a minimum of six credits approved for my Advance pathway each fall semester and each semester.
- Complete ENG 111, ENG 125 and the required math for my Advance pathway with grades of A, B, or C in each course within my first 30 credits of enrollment at NOVA.
- Earn grades of A, B or C in all courses.
- Maintain a minimum 2.5 cumulative grade point average each semester at NOVA.
- Maintain communication with my ADVANCE Success Coach each semester to insure that I am enrolled in the courses leading to completion of my associate's degree.
- Read and comply with the NOVA and MASON Codes of Student Conduct at: ***nvcc.edu/students/handbook/conduct.html*** and ***studentconduct.gmu.edu***
- Adhere to the Mason Honor Code: *To promote a stronger sense of mutual responsibility, respect, trust, and fairness among all members of the George Mason University Community and with the desire for greater academic and personal achievement, we, the student members of the university community, have set for this Honor Code: Student Members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.*
- Be responsible for responding to emails sent to my NOVA and MASON email accounts
- Graduate from NOVA with the applicable Associate of Arts, Associate of Science or Associate of Applied Science degree.

Administration of ADVANCE

Advance students with 63 or fewer credits are guided by the academic policies of NOVA. Advance students with 64 or more credits are guided by the academic policies of MASON.

Violations of student behavioral codes may be addressed by one or both institutions. The applicable code will be based on location of the incident(s), severity, as well as in collaboration between the conduct offices at both institutions. Additionally, a student may be charged by both institutions if a possible outcome is suspension or dismissal (expulsion).

Referrals for possible violations of Academic Integrity will be addressed according to the host institution of a particular class. This will be determined by the course listing (i.e. either NOVA or MASON) as well as the affiliation of the faculty member instructing the course.

Enrollment and Financial Aid

With the written approval of the Success Coach, ADVANCE students may co-enroll in a maximum of 9 credits at Mason during the first 63 credits of NOVA enrollment. Each lower-level course must be designated 100-299 and be approved to fulfill an associate's degree pathway requirement.

Advance students recognize that academic, registration and payment policies are different at NOVA and MASON. Additionally, the academic calendars of both institutions vary. Students are expected to comply with the deadlines, policies and procedures at the institution where they are taking courses.

For purposes of awarding financial aid, NOVA will be the home school until the student has completed 63 credits toward their associate's degree in the Advance Program at NOVA, and Mason will be the host school. Upon completion of 63 credits toward their associate's degree in the Advance Program at NOVA, Mason will become the home school, and NOVA will be the host school.

FERPA and Student Records

NOVA and MASON will share academic and financial aid information about ADVANCE students under the terms of the Family Educational Rights and Privacy Act of 1974 (FERPA). FERPA protections go into effect on the first day of classes of the student's first term of enrollment.

I agree to abide by the information provided in the ADVANCE Agreement.

Name: _____

EMPL ID: _____

Date: _____

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science/B.S. Physics – Applied and
Engineering Physics Concentration

2019-20

A.S. Science Pathway (Physics)

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 complete ENG 111 and ENG 112 with a C or better.
5. Students must complete all Mathematics and Physics courses with a C or better.
6. Students must complete at least six degree-applicable credits with a C or better each fall and spring semester.
7. Students must maintain a 2.5 cumulative GPA.
8. 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 263	4	MTH 263 Calculus I	MATH 113	Quant
5	ENG 112	3	ENG 112 College Composition II	ENGH XXX	Elective
6	CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm
7	Science Course #1	5	PHY 231 General University Physics I	PHYS 160- 161-266	NAT SCIENCE
8	MTH 264	4	MTH 264 Calculus II	MATH 114	DEGREE
9	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 212 Principles of Anthropology II	ECON 104 ECON 103 GGG 103 HIST 121 HIST 122 GOVT 103 GOVT 103 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
10	Math or Science #1	4	MTH 265 Calculus III	MATH 213	DEGREE
11	Science Course #2	5	PHY 232 General University Physics II	PHYS 260- 261-XXX	NAT SCIENCE
12	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
13	Math or Science #2	3	MTH 266 Linear Algebra	MATH 203	Elective
14	ITE 115 or General Education	3	PHYS 251 Introduction to Computer Techniques in Physics	PHYS 251	Info Tech
15	Math or Science #3	3	MTH 267 Differential Equations	MATH 214	Elective
16	MTH 167 or Science	4	PHY 243 Modern Physics*	PHYS L308	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			

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

MASON DEGREE REQUIREMENT SEQUENCE		Credits	Course	MASON CORE/DEGREE EQUIVALENT
19	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition	Written Comm
20	Physics Core Courses	3	PHYS 301 Analytical Methods of Physics	DEGREE
21	Physics Core Courses	3	PHYS 303 Classical Mechanics	DEGREE
22	Physics Core Courses	3	PHYS 305 Electromagnetic Theory	DEGREE
23	Intermediate Laboratory	3	PHYS 311 Instrumentation	DEGREE
24	Mathematics/Computational Physics	3	PHYS 410 Computational Physics Capstone	DEGREE
25	Physics Theory	3	PHYS 306 Wave Motion and Electromagnetic Radiation	DEGREE
26	Intermediate Laboratory	3	PHYS 312 Waves and Optics	DEGREE
27	Physics Core Courses	3	PHYS 402 Introduction to Quantum Mechanics and Atomic Physics	DEGREE
28	Physics Theory	3	PHYS 370 Molecular Biophysics OR PHYS 403 Quantum Mechanics II OR PHYS 412 Solid State Physics and Applications	DEGREE
29	General Elective*	3	General Elective (See: Advisor)*	DEGREE
30	Physics Core Courses	3	PHYS 307 Thermal Physics	DEGREE
31	Physics Theory	3	PHYS 370 Molecular Biophysics OR PHYS 403 Quantum Mechanics II OR PHYS 412 Solid State Physics and Applications	DEGREE
32	Gen Ed: Synthesis/Core Requirement	4	PHYS 407 Senior Laboratory in Modern Physics	Synthesis & Writing Intensive
33	Physics Core Courses	1	PHYS 416 Special Topics in Undergraduate Physics	DEGREE
34	General Elective	3	General Elective (See: Advisor)	DEGREE
35	Practical Work	3	Approved Practical Work course**	DEGREE
36	Practical Work	3	Approved Practical Work course**	DEGREE
37	Practical Work	3	Approved Practical Work course**	DEGREE
38	Practical Work	3	Approved Practical Work course**	DEGREE
39	General Elective	1	General Elective (See: Advisor)	DEGREE
B.S. PHYSICS DEGREE TOTAL		120		

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

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

*PHY 243 is only offered in the spring semester. If PHY 243 is not available, students should take CHM 111, BIO 101, GOL 105, or PHY 150. Consult your Success Coach for more information.

**For approved Practical Work courses, please visit: <https://workingcatalog.gmu.edu/colleges-schools/science/physics-astronomy/physics-bs/#requirementstext>

General Note: Students must complete a total of 75 credits in the major (69 credits if completing a second major), including at least 11 credits in mathematics, with a minimum GPA of 2.00. Students must complete the coursework described below and either select a concentration or select the "BS without Concentration" option.

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