

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: _____

A.S. Engineering Pathway

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.
 - c. Engineering students must begin the calculus sequence and complete Calculus I and II with a B 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 complete Matlab applications concurrently with MTH 266.
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 Engineering	UNIV 100	ELECTIVE
2	ENG 111	3	ENG 111 College Composition I	ENGH 101	Written Comm
3	Social/Behavioral Sciences #1	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 Reasoning
5	Technical Elective #1	4	CHM 111 College Chemistry I	CHEM 211-213 (CHEM 271/272)	DEGREE
6	CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm
7	EGR 121	3	BENG 101 Intro to Bioengineering	BENG 101	DEGREE
8	ENG 112	3	ENG 112 College Composition II	ENGH XXX	Elective
9	MTH 264	4	MTH 264 Calculus II	MATH 114	DEGREE
10	Technical Elective #2	4	CHM 112 College Chemistry II	CHEM 212-214	Elective
11	PHY 231	5	PHY 231 General University Physics I	PHYS 160-161-266	NAT SCIENCE
12	MTH 265	4	MTH 265 Calculus III	MATH 213	DEGREE
13	Technical Elective #3*	3	MTH 266 Linear Algebra*	MATH 203	DEGREE
14	PHY 232	5	PHY 232 General University Physics II	PHYS 260-261-XXX	NAT SCIENCE
15	Technical Elective #5	3	CHM 241 Organic Chemistry I-Lecture	CHEM L313 (CHEM 310)	DEGREE
16	Technical Elective #6	2	CHM 245 Organic Chemistry I-Laboratory	CHEM L315	ELECTIVE
17	MTH 267	3	MTH 267 Differential Equations	MATH 214	DEGREE
18	Social/Behavioral Sciences #2	3	ECO 202 Principles of Microeconomics OR PSY 200 Principles of Psychology OR (recommended) SOC 200 Principles of Sociology	ECON 103 PSYC 100 SOCI 101	Soc/Behav
19	Technical Elective #4	4	BIOL 213 Cell Structure and Function (BENG section only)	BIOL 213	DEGREE
20	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

21	Humanities/Fine Arts	3	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 200 ARTH 201 THR 101 ENGH L372 MUSI 101	Arts
A. S. ENGINEERING DEGREE TOTAL			70		

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

Students must select a concentration:

Bioengineering Healthcare Informatics; Biomaterials and Nanomedicine; Biomedical Imaging and Devices;
Computational Biomedicine Engineering; Neurotechnology and Computational Neuroscience

NOTE: Students interested in the Bioengineering Prehealth concentration should speak with a Bioengineering Advisor to discuss best transfer option.

MASON DEGREE REQUIREMENT SEQUENCE			Credits	Course	MASON CORE/DEGREE EQUIVALENT
22	Computer Science	4	CS 112 Introduction to Computer Programming		DEGREE
23	Bioengineering	3	BENG 214 Physiology for Engineers		DEGREE
24	Bioengineering	3	BENG 230 Continuum Biomechanics and Transport I		DEGREE
25	Bioengineering	1	BENG 391 Bioengineering Professional Development		DEGREE
26	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition (Natural Science Section)		Written Comm
27	Bioengineering	4	BENG 240 Biomaterials AND BENG 241 Biomechanics and Biomaterials Lab (Spring only)		DEGREE
28	Bioengineering	4	BENG 370 Bioinstrumentation and Devices I AND BENG 371 Bioinstrumentation and Devices Lab		DEGREE
29	Bioengineering	3	BENG 350 Neural System Designs (Spring only)		DEGREE
30	Bioengineering	3	BENG 320 Bioengineering Signals & Systems		DEGREE
31	Bioengineering	4	BENG 330 Computational Methods in Bioengineering AND BENG 331 Computational Methods in Bioengineering Lab		DEGREE
32	Bioengineering	3	BENG 414 Pathophysiology and the Role of New Technologies in Human Diseases (Fall only)		DEGREE
33	Bioengineering/Synthesis	3	BENG 492 Senior Advanced Design Project I		DEGREE
34	Mathematics and Statistics	3	STAT 350 Introductory Statistics II		DEGREE
35	Bioengineering	3	BENG 360 Biomedical Imaging		DEGREE
36	Concentration Courses	3	Concentration Specialization Course***		DEGREE
37	Bioengineering	3	BENG 475 Intellectual Property, Regulatory Concepts and Product Development (Spring only)		DEGREE
38	Gen Ed: Synthesis/Bioengineering	3	BENG 493 Senior Advanced Design Project II		Synthesis
39	Gen Ed: Global Understanding	3	Approved Global Understanding Course**		Global
40	Concentration Courses	3	Concentration Specialization Course***		DEGREE
41	Concentration Courses	3	Concentration Specialization Course***		DEGREE
42	Concentration Courses	3	Technical Elective***		DEGREE
43	Concentration Courses	3	Technical Elective***		DEGREE
B.S. BIOENGINEERING DEGREE TOTAL		138			

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

*Students must register for Matlab applications - please see Mason advisor for registration

**For approved Mason Core courses, please visit - <https://catalog.gmu.edu/mason-core/>

***For approved Concentration Courses and Technical Electives, please visit - <https://catalog.gmu.edu/colleges-schools/engineering/bioengineering/bioengineering-bs/#requirementstext>

General Note: Students must complete each BENG, BIOL, CHEM, CS, ECE, ME course presented as part of the required credits for the degree with a grade of C or better. Summer courses are highly recommended in order to elevate the intense workload of the Bioengineering pathway (See: Advisor).

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