# ADVANCE

A NOVA | MASON PARTNERSHIP

## A.A.S. Cybersecurity

## **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-#7, 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 <u>highly encouraged</u> 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 spring graduation by March 1 or summer graduation by June 1.

Students who wish to enroll at Mason for the spring semester must apply for NOVA fall graduation by October 1.

4. Students must begin developmental coursework 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 complete ENG 111 and ENG 112 with a C or better.

7. Students must complete a Mason Core Quantitative Reasoning course equivalent with a C or better no later than one semester before NOVA graduation. Refer to your pathway to select the appropriate MTH course(s).

ADVANCE Program-Specific Requirements:

If English is not your first language or you have completed ESL coursework, you must complete ENG 111 and ENG 112 prior to matriculating to George Mason University to meet the English Language Proficiency requirement. Please reach out to ADVANCE Admissions early if you have any questions about this requirement: advance@gmu.edu.

BAS degrees are designed for adult learners who have some work experience in their field of choice, but the degree is open to students of all ages. Further, BAS degrees are often considered terminal degrees (i.e., they may not lead to advanced study in master's degree or doctoral programs). Students who are interested in advanced study are encouraged to contact graduate programs early to determine if the BAS program fits their requirements.

	NOVA DEGREE REQUIREMENT	Credits	Courses	MASON TRANSFER	MASON CORE/DEGREE
				EQUIVALENT	EQUIVALENT
1	SDV Course	1	SDV 101 Orientation to Information Technology	UNIV 100	General Elective
2	ENG 111	3	ENG 111 College Composition I	ENGH 101	Written Comm
3	ITE 152	3	ITE 152 Introduction to Digital and Information Literacy and Computer Applications	IT 104	Major
4	ITN 100 Required (NOVA Catalog: ITN 101 or ITN 100)	3	ITN 100 Intro to Telecommunications <sup>1</sup>	See #8	General Elective
5	ITN 106	3	ITN 106 Microcomputer Operating Systems	BAS XXX	Major
6	MTH 154	3	MTH 154 Quantitative Reasoning	MATH 106	Quantitative
7	ITP 100	3	ITP 100 Software Design	IT XXX	Major
8	ITE 221	3	ITE 221 PC Hardware and OS Architecture <sup>1</sup>	IT 105 & IT XXX	Major
9	ITN 171 or ITN 170	3	ITN 170 Linux System Administration <b>OR</b> ITN 171 Unix I	BAS XXX	Major
10	ITN 260	3	ITN 260 Network Security Basics <sup>1</sup>	See #16	General Elective
11	ITN 261	4	ITN 261 Network Attacks, Computer Crime and Hacking	BAS XXX	Major
12	ITP Programming Elective	4	ITP 120 Java Programming I <b>OR</b> ITP 132 C++ Programming I <b>OR</b> ITP 150 Python Programing <b>OR</b> ITP 225 Web Scripting Languages <b>OR</b> ITP 270 Programming for Cybersecurity	ΙΤ ΧΧΧ	Major
13	ITN 200	3	ITN 200 Administration of Network Resources	BAS XXX	Major
14	ITN 262	4	ITN 262 Network Communication, Security and Authentication	BAS XXX	Major

15	ITN 263	4	ITN 263 Internet/Intranet Firewall and E-Commerce	BAS XXX	Major
16	ITN 266	3	ITN 266 Network Security Layers <sup>1</sup>	IT 223 & IT XXX	Major
	CST Course	3	CST 100 Principles of Public Speaking <b>OR</b>	COMM 100	Oral Comm
		5	CST 110 Introduction to Human Communication	COMM 101	
			ART 100 Art Appreciation <b>OR</b>	ARTH 101	
			ART 101 History of Art: Prehistoric to Gothic <b>OR</b>	ARTH 200	
	Humanities/Fine Arts	3	ART 102 History of Art: Renaissance to Modern <b>OR</b>	ARTH 201	Arts
			CST 130 Introduction to Theatre <b>OR</b>	THR 101 ENGH L372	
			CST 151 Film Appreciation I <b>OR</b>	MUSI 101	
0	ITN 276	3	MUS 121 Music in Society ITN 276 Computer Forensics I	BAS XXX	Major
.9	1111 270	5	ITN 277 Legal Topics in Network Security <b>OR</b>	IT XXX	IVIAJOI
			ITN 207 Legal Topics in Network Security OK	IT XXX	
:0	ITN Elective	3	ITN 290 Coordinated Internship <b>OR</b>	BAS XXX	Major
			ITN 295 Topics In:	BAS XXX	
			HIS 101 Western Civilizations Pre-1600 CE <b>OR</b>	HIST 101	
21	Social/Behavioral Sciences	3	HIS 102 Western Civilizations Post-1600 CE OR	HIST 102	Western Civ
			HIS 112 World Civilizations Post-1500 CE	HIST 125	
.A	.S. CYBERSECURITY	65			
EC	GREE TOTAL	65			
	For academic policies and proc	edures, p	lease see NOVA catalog - http://www.nvcc.edu/catalog/index	.html	
3.,	A.S. Applied Science	- Cvbe	er Security Concentration		
					MASON
	MASON DEGREE	Credits	Course		CORE/DEGRE
	REQUIREMENT				EQUIVALENT
_					
2	Concentration Requirements	3	IT 304 IT in the Global Economy		Major
3	Concentration Requirements	3	IT 357 Computer Crime, Forensics, and Auditing		Major
	-				-
	Core Requirements	3	BAS 300 Building Professional Competencies		Major
25	Gen Ed: Literature	3	Approved Literature Course <sup>2</sup>		Literature
26	Gen Ed: Natural Science (Lab)	4	Approved Natural Science with Lab <sup>2</sup>		Nat Science
77	Concentration Requirements	3	IT 429 Security Accreditation of Info Systems		Major
- /	-	5	The systems		Wajor
28	Gen Ed: Written	3	ENGH 302 Advanced Composition		Written Comm
	Communication (UL)	2			<b>N 4</b> = 1 = 1
	Technical Focus Courses	3	Technical Focus Course - Upper-level <sup>3</sup>		Major
80	Technical Focus Courses	3	Technical Focus Course - Upper-level <sup>3</sup>		Major
31	Gen Ed: Natural Science (Non-	3	Approved Natural Science without Lab <sup>2</sup>		Nat Science
	Lab)				
32	<b>Concentration Requirements</b>	3	IT 353 Information Defense Technologies		Major
33	Concentration Requirements	3	IT 343 Project Management		Writing Intensiv
	Technical Focus Courses	3	Technical Focus Course - Upper-level <sup>3</sup>		Major
					Soc/Behav
84	Gen Ed: Social Science	3	Approved Social Science Course <sup>2</sup>		
4 5					
4 5	Gen Ed: Social Science Core Requirements	3	BAS 490 Introduction to Research Methods <sup>4</sup> OR		Major
4 5 6			BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup>		Major Major
84 85 86 87	Core Requirements Technical Focus Courses	3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup> Technical Focus Course - Upper-level <sup>3</sup>		Major
34 35 36 37	Core Requirements Technical Focus Courses Technical Focus Courses	3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup>		
34 35 36 37	Core Requirements Technical Focus Courses Technical Focus Courses Gen Ed: Global	3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup> Technical Focus Course - Upper-level <sup>3</sup>		Major
34 35 36 37 38	Core Requirements Technical Focus Courses Technical Focus Courses Gen Ed: Global Understanding	3 3 3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup> Technical Focus Course - Upper-level <sup>3</sup> Technical Focus Course - Upper-level <sup>3</sup> Approved Global Understanding Course <sup>2</sup>		Major Major
84 85 86 87 88	Core Requirements Technical Focus Courses Technical Focus Courses Gen Ed: Global Understanding Core	3 3 3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup> Technical Focus Course - Upper-level <sup>3</sup> Technical Focus Course - Upper-level <sup>3</sup> Approved Global Understanding Course <sup>2</sup> BAS 491 Applied Sciences Capstone <sup>4</sup> <b>OR</b>		Major Major
4 5 6 7 8 9	Core Requirements Technical Focus Courses Technical Focus Courses Gen Ed: Global Understanding Core Requirements/Synthesis	3 3 3 3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup> Technical Focus Course - Upper-level <sup>3</sup> Technical Focus Course - Upper-level <sup>3</sup> Approved Global Understanding Course <sup>2</sup>		Major Major Global
4 5 7 8 9 0	Core Requirements Technical Focus Courses Technical Focus Courses Gen Ed: Global Understanding Core	3 3 3 3	BAS 490 Introduction to Research Methods <sup>4</sup> <b>OR</b> BAS 492 Capstone Development <sup>4</sup> Technical Focus Course - Upper-level <sup>3</sup> Technical Focus Course - Upper-level <sup>3</sup> Approved Global Understanding Course <sup>2</sup> BAS 491 Applied Sciences Capstone <sup>4</sup> <b>OR</b>		Major Major Global

Please note: Some fully online courses may require a campus presence for orientations, tests, final exams, or labs.

### Important Academic Information:

<sup>1</sup>Students must take ITN 100 and ITE 221 in order to receive credit for IT 105. Students must take ITN 260 and ITN 266 in order to receive credit for IT 223.

<sup>2</sup>For approved Mason Core courses, please visit - https://catalog.gmu.edu/mason-core/

<sup>3</sup>For approved Technical Focus courses, please visit: https://catalog.gmu.edu/colleges-schools/interdisciplinary-programs-courses/applied-sciencebas/#requirementstext

<sup>4</sup>Students must select either BAS 490 and BAS 491 or BAS 492 and BAS 493.

### Additional General Notes & Resources:

• Students must have a C or better in any course that satisfies a prerequisite for an IT course. To graduate with the BAS with a Cyber Security concentration, students must have a C or better in their major core, concentration, and technical focus courses.

• If English is not your first language or you have completed ESL coursework, you must complete ENG 111 and ENG 112 prior to matriculating to George Mason University to meet the English Language Proficiency requirement.

• 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.