

ADVANCE

A NOVA | MASON PARTNERSHIP

A.A.S. Cybersecurity /
B.A.S. Applied Science - Cyber Security
Concentration Pathway
2021-2022

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-#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 with a C or better.
 - b. Complete the first college-level MTH course with a C or better.

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.

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 EQUIVALENT	MASON CORE/DEGREE EQUIVALENT
1	SDV Course	1	SDV 100 College Success Skills OR 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 119	3	ITE 119 Information Literacy	IT 104	Major
4	ITN 100 Required (NOVA Catalog: ITN 101 or ITN 100)	3	ITN 100 Intro to Telecommunications ¹	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 ¹	IT 105 & IT XXX	Major
9	ITN 171 or ITN 170	3	ITN 170 Linux System Administration OR ITN 171 Unix I	BAS XXX	Major
10	ITN 260	3	ITN 260 Network Security Basics ¹	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 112 Visual Basic.net I OR ITP 120 Java Programming I OR ITP 130 C Programming I OR ITP 132 C++ Programming I OR ITP 136 C# Programming I OR ITP 150 Python Programming OR ITP 225 Web Scripting Languages OR ITP 270 Programming for Cybersecurity	IT XXX	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 ¹	IT 223 & IT XXX	Major
17	CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm
18	Humanities/Fine Arts	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 ENGL L372 MUSI 101	Arts
19	ITN 276	3	ITN 276 Computer Forensics I	BAS XXX	Major
20	IT Security Elective	4	ITN 267 Cyberlaw OR ITN 277 Computer Forensics II	BAS XXX	Major
21	Social/Behavioral Sciences	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

A.A.S. CYBERSECURITY
DEGREE TOTAL 66

 For academic policies and procedures, please see NOVA catalog - <http://www.nvcc.edu/catalog/index.html>
B.A.S. Applied Science - Cyber Security Concentration

	MASON DEGREE REQUIREMENT	Credits	Course		MASON CORE/DEGREE EQUIVALENT
22	Concentration Requirements	3	IT 304 IT in the Global Economy		Major
23	Concentration Requirements	3	IT 357 Computer Crime, Forensics, and Auditing		Major
24	Core Requirements	3	BAS 300 Building Professional Competencies		Major
25	Gen Ed: Literature	3	Approved Literature Course ²		Literature
26	Gen Ed: Natural Science (Lab)	4	Approved Natural Science with Lab ²		Nat Science
27	Concentration Requirements	3	IT 429 Security Accreditation of Info Systems		Major
28	Gen Ed: Written Communication (UL)	3	ENGL 302 Advanced Composition		Written Comm
29	Technical Focus Courses	3	Technical Focus Course - Upper-level ³		Major
30	Technical Focus Courses	3	Technical Focus Course - Upper-level ³		Major
31	Gen Ed: Natural Science (Non-Lab)	3	Approved Natural Science without Lab ²		Nat Science
32	Concentration Requirements	3	IT 353 Information Defense Technologies		Major
33	Concentration Requirements	3	IT 343 Project Management		Writing Intensive
34	Technical Focus Courses	3	Technical Focus Course - Upper-level ³		Major
35	Gen Ed: Social Science	3	Approved Social Science Course ²		Soc/Behav
36	Core Requirements	3	BAS 490 Introduction to Research Methods		Major
37	Technical Focus Courses	3	Technical Focus Course - Upper-level ³		Major
38	Technical Focus Courses	3	Technical Focus Course - Upper-level ³		Major
39	Gen Ed: Global Understanding	3	Approved Global Understanding Course ²		Global
40	Core Requirements/Synthesis	3	BAS 491 Applied Sciences Capstone		Synthesis

B.A.S. APPLIED SCIENCE
DEGREE TOTAL 124
Important Academic Information:
¹Students 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.

²For approved Mason Core courses, please visit - <https://catalog.gmu.edu/mason-core/>
³For approved Technical Focus courses, please visit: <https://catalog.gmu.edu/colleges-schools/interdisciplinary-programs-courses/applied-science-bas/#requirementstext>

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.