

ADVANCE

A NOVA | MASON PARTNERSHIP

A.A.S. Information Systems Technology: Cloud Computing Specialization /
B.A.S. Applied Science - Cloud Computing
Concentration: Cloud Technology Track Pathway
2022-2023

A.A.S. Information Systems Technology: Cloud Computing Specialization

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 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 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:

BAS programs have specialized admission criteria. In this pathway, the Mason Core Quantitative Reasoning course is completed at Mason. Refer to the courses below to select the appropriate math course at NOVA.

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 Mason 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 EQUIVALENT	MASON CORE/DEGREE 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	Info Tech
4	ITN 101	3	ITN 101 Introduction to Network Concepts	IT XXX	Major
5	ITN 257	3	ITN 257 Cloud Computing: Infrastructure and Services	BAS XXX	Major
6	MTH 161 Required (NOVA Catalog: MTH 154 or Higher)	3	MTH 161 PreCalculus I	None	Prerequisite
7	ITD 256	3	ITD 256 Advanced Database Management	IT XXX	Major
8	ITN 107	3	ITN 107 Personal Computer Hardware and Troubleshooting	IT XXX	Major
9	ITN 200	3	ITN 200 Administration of Network Resources	BAS XXX	Major
10	ITN 260	3	ITN 260 Network Security Basics	IT XXX	Major
11	ITP 100	3	ITP 100 Software Design	IT XXX	Major
12	IT Elective	3	ITN 106 Microcomputer Operating Systems OR ITN 290 Coordinated Internship OR ITN 295 Topics In---	BAS XXX	Major
13	ITD 110	3	ITD 110 Web Page Design I	IT XXX	Major

14	ITN 170	3	ITN 170 Linux System Administration	BAS XXX	Major
15	ITN 213	3	ITN 213 Information Storage and Management	BAS XXX	Major
16	ITP Programming Elective	4	ITP 120 Java Programming I OR	IT 106	Major
			ITP 150 Python Programming	IT 109	
17	CST Elective	3	CST 100 Principles of Public Speaking OR	COMM 100	Oral Comm
			CST 110 Introduction to Human Communication	COMM 101	
18	ITN 254	4	ITN 254 Virtual Infrastructure: Installation & Configuration	BAS XXX	Major
19	Humanities/Fine Arts	3	ART 100 Art Appreciation OR	ARTH 101	Arts
			ART 101 History of Art: Prehistoric to Gothic OR	ARTH 200	
			ART 102 History of Art: Renaissance to Modern OR	ARTH 201	
			CST 130 Introduction to Theatre OR	THR 101	
			CST 151 Film Appreciation I OR	ENGL L372	
			MUS 121 Music in Society	MUSI 101	
20	Social/Behavioral Sciences #1	3	ECO 201 Principles of Macroeconomics OR	ECON 104	Soc/Behav
			ECO 202 Principles of Microeconomics OR	ECON 103	
			GEO 210 People and the Land: An Introduction to Cultural Geography OR	GGG 103	
			HIS 121 United States History to 1877 OR	HIST 121	
			HIS 122 United States History Since 1865 OR	HIST 122	
			PLS 135 U.S. Government and Politics OR	GOVT 103	
			PSY 200 Principles of Psychology OR	PSYC 100	
			PSY 230 Developmental Psychology OR	PSYC 211	
			SOC 200 Introduction to Sociology OR	SOCI 101	
			SOC 211 Cultural Anthropology	ANTH 114	
21	Social/Behavioral Sciences #2	3	HIS 101 Western Civilizations Pre-1600 CE OR	HIST 101	Western Civ
			HIS 102 Western Civilizations Post-1600 CE OR	HIST 102	
			HIS 112 World Civilizations Post-1500 CE	HIST 125	

A.A.S. IST CLOUD DEGREE TOTAL 63

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

B.A.S. Applied Science Cloud Computing Concentration: Cloud Technology Track

This pathway only applies to the Cloud Technology track within the Cloud Computing Concentration.

	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT
22	Concentration Requirements	3	MATH 108 Introductory Calculus with Business Applications	Quantitative
23	Concentration Requirements	3	IT 102 Discrete Structures	Major
24	Concentration Requirements	3	IT 105 IT Architecture Fundamentals	Major
25	Core Program Requirements	3	BAS 300 Building Professional Competencies	Major
26	Mason Core: Literature	3	Any approved Literature course ¹ (Upper-level)	Literature
27	General Electives	3	Any General Elective course (Upper-level)	General Elective
28	Concentration Requirements	3	IT 300 Modern Telecommunications	Major
29	Mason Core: Written Communication (Upper-level)	3	ENGH 302 Advanced Composition	Written Comm
30	Mason Core: Natural Science without Lab	3	Any approved Natural Science without Lab course ¹ (Upper-level: See Advisor)	Nat Science
31	Mason Core: Global Understanding	3	Any approved Global Understanding course ¹ (Upper-level)	Global
32	Concentration Requirements	3	IT 341 Data Communication and Network Principles	Major
33	Concentration Requirements	3	IT 343 IT Project Management	Major & Writing Intensive

34	Concentration Requirements	3	IT 451 Cloud Services Management	Major
35	Concentration Requirements	3	IT 461 Application Development in Cloud	Major
36	Core Program Requirements	3	BAS 490 Introduction to Research Methods ² OR BAS 492 Capstone Development ²	Major
37	Concentration Requirements	3	IT 442 Cloud Infrastructure	Major
38	Concentration Requirements	3	IT 481 Cloud Security	Major
39	Mason Core: Natural Science with Lab	4	Any approved Natural Science with Lab course ¹	Nat Science
40	Core Program Requirements	3	BAS 491 Applied Sciences Capstone ² OR BAS 493 BAS Capstone ²	Synthesis

B.A.S. APPLIED SCIENCE -				
CLOUD COMPUTING DEGREE		121		
TOTAL				

Important Academic Information:

¹For approved Mason Core courses, please visit - <https://catalog.gmu.edu/mason-core/>

²Students must select either BAS 490 and BAS 491 or BAS 492 and BAS 493.

Additional General Notes & Resources:

- To graduate in the BAS with a Cloud Computing concentration, students must have a C or better in their major core and concentration 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.