

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Information Technology /
B.S. Information Technology Pathway
2020-2021

A.S. Information Technology

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 MTT 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.
5. Students must complete at least six degree-applicable credits with a C or better each fall and spring semester.
6. Students must earn a 3.0 cumulative GPA to matriculate to Mason.
7. Students must earn a B or higher in ITE 119, ITN 100, ITE 221, ITP 120 or ITP 150, ITE 170, and ITD 256.
8. Students must apply for NOVA graduation and complete their Associate's degree.

	NOVA DEGREE REQUIREMENT	Credits	Courses	MASON TRANSFER EQUIVALENT	MASON CORE/DEGREE EQUIVALENT
1	SDV Course	1	SDV 101 Orientation to Information Technology	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 161	3	MTH 161 PreCalculus I*	None	Prerequisite
5	ITE 119	3	ITE 119 Information Literacy	IT 104	Major
6	ENG 112	3	ENG 112 College Composition II	ENGH XXX	Elective
7	CST 100 or 110	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm
8	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
9	MTH 261	3	MTH 261 Applied Calculus I	MATH 108	Major
10	Technical Elective #1	3	ITE 170 Multimedia Software	IT 213	Major
11	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 211 Principles of Anthropology I	ECON 104 ECON 103 GGS 103 HIST 121 HIST 122 GOVT 103 GOVT 103 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
12	Programming Elective	4	ITP 120 Java Programming I OR ITP 150 Python Programming	IT 106 IT 109	Major

13	Science Course #1	4	BIO 101 General Biology I OR CHM 101 Introductory Chemistry I OR ENV 121 General Environmental Science I OR GOL 105 Physical Geology OR PHY 101 Introduction to Physics I	BIOL 103 CHEM 103 EVPP 110 GEOL 101 PHYS 103	Nat Science
14	Technical Elective #2	3	ITD 256 Advanced Database Management	IT 214	Major
15	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
16	Technical Elective #3	3	IT 102 Discrete Structures	IT 102	Major
17	Social/Behavioral Sciences #2	3	GEO 220 World Regional Geography OR HIS 111 History of World Civilization I OR PLS 140 Introduction to Comp Govt OR PLS 241 International Relations I OR PSY 219 Cross-Cultural Psychology OR SSC 115 Introduction to Global Affairs	GGG 101 HIST L387 GOVT 133 GOVT 132 PSYC L379 GLOA 101	Global
18	Science Course #2	4	BIO 102 General Biology II OR CHM 102 Introductory Chemistry II OR ENV 122 General Environmental Science II OR GOL 106 Historical Geology OR PHY 102 Introduction to Physics II	BIOL 106/107 CHEM 104 EVPP 111 GEOL 102 PHYS 104	Nat Science
19	Technical Elective #4	3	ITN 100 Introduction to Telecommunications	see #20	
20	Technical Elective #5	3	ITE 221 PC Hardware and OS Architecture	IT 105 and IT XXX**	Major & Elective

A.S. INFORMATION TECHNOLOGY DEGREE TOTAL 61

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

B.S. Information Technology

Concentrations: Cyber Security, Database Technology and Programming, Health Information Technology, Network and Telecommunications, Web Development

	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT
21	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition	Written Comm
22	IT Foundation Course	3	IT 206 Object Oriented Techniques for IT Problem Solving OR IT 209 Introduction to Object Oriented Programming	Major
23	IT Foundation Course	3	IT 216 Systems Analysis and Design	Major
24	IT Foundation Course	3	STAT 250 Introductory Statistics I	Major
25	IT Core Course	3	IT 207 Applied IT Programming	Major
26	IT Core Course	3	IT 223 Information Security Fundamentals	Major
27	IT Core Course	3	IT 300 Modern Telecommunications	Major
28	IT Core Course	3	IT 304 IT in the Global Economy	Major
29	IT Core Course	3	IT 341 Data Communications and Network Principles	Major
30	IT Core Course	3	IT 342 Operating Systems Fundamentals	Major
31	IT Core Course	3	IT 343 IT Project Management	Major
32	IT Core Course	3	MBUS 300 Accounting in a Global Economy	Major
33	IT Core Course	3	SYST 469 Human Computer Interaction	Major
34	Gen Ed: Capstone/Synthesis	3	IT 492 Senior Design Project I	Synthesis
35	Gen Ed: Capstone/Synthesis	4	IT 493 Senior Design Project II	Synthesis

36	Other Major Requirements	1	IT 293 Applied IT: Junior Transition	Major
37	IT Concentration Course #1	3	Approved Concentration Course***	Major
38	IT Concentration Course #2	3	Approved Concentration Course***	Major
39	IT Concentration Course #3	3	Approved Concentration Course***	Major
40	IT Concentration Course #4	3	Approved Concentration Course***	Major
41	IT Concentration Course #5	3	Approved Concentration Course***	Major

B.S. INFORMATION **120-123**
TECHNOLOGY DEGREE TOTAL

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/>

*Students should select MTH 245 if MTH 161 is not needed. MTH 161 does not transfer to Mason.

**Students must take ITN 100 and ITE 221 in order to receive credit for IT 105.

***For approved concentration courses, please visit: <https://catalog.gmu.edu/colleges-schools/engineering/information-sciences-technology/information-technology-bs/#requirements-text>

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