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. **While not required to matriculate to Mason, in the following courses, students must earn a B or higher to receive the equivalent Mason credit: ITP 120 or ITP 150, ITE 170, and ITD 256.**
8. **Students must have a minimum 2.85 GPA upon matriculation to Mason. Please note this program GPA requirement is higher than the ADVANCE program requirement indicated in milestone #2 above.**

	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	Prerequiste
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	GGS 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**			

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 TECHNOLOGY DEGREE TOTAL   **120-123**

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/#requirementstext

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