

ADVANCE

A NOVA | MASON PARTNERSHIP

A.S. Science Mathematics Specialization/B.S.
Statistics – Applied Statistics Concentration

2019-20

A.S. Science Mathematics Specialization Pathway 2019-2020

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 MTE or ENF courses (excluding summer).
4. In the first 30 credits, students must:
 - a. Complete ENG 111 and ENG 125 with a C or better.
 - b. Complete the first college-level MTH course with a C or better.
 - c. Engineering students must begin the calculus sequence and complete Calculus I and II with a B 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 maintain a 2.5 cumulative GPA.
7. Students must apply for NOVA graduation and complete their Associate's degree.

NOVA DEGREE REQUIREMENT SEQUENCE	Credits	Courses	MASON TRANSFER EQUIVALENT	MASON CORE/DEGREE EQUIVALENT
1 SDV Course	1	SDV 100 College Success Skills OR SDV 101 Orientation to XXX	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 263	4	MTH 263 Calculus I	MATH 113	Quant
5 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 212 Principles of Anthropology II	ECON 104 ECON 103 GGG 103 HIST 121 HIST 122 GOV 103 GOV 103 PSYC 100 PSYC 211 SOCI 101 ANTH 114	Soc/Behav
6 ENG 112	3	ENG 112 College Composition II	ENGH XXX	Elective
7 MTH 264	4	MTH 264 Calculus II	MATH 114	DEGREE
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 ENGL L372 MUSI 101	Arts
9 Science Course #1	4	BIO 101 General Biology I OR CHM 101 General 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
10 MTH 265	4	MTH 265 Calculus III	MATH 213	DEGREE
11 Science Course #2	4	BIO 102 General Biology II OR CHM 102 General Chemistry II OR ENV 122 General Environmental Science II OR GOL 106 Historical Geology OR PHY 102 Introduction to Physics II	BIOL 104 CHEM 104 EVPP 111 GEOL 102 PHYS 104	NAT SCIENCE
12 CST Course	3	CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication	COMM 100 COMM 101	Oral Comm

13	Social/Behavioral Sciences #2	3	GEO 220 World Regional Geography OR PLS 140 Introduction to Comparative Gov't OR PLS 241 International Relations I	GGS 101 GOVT 133 GOVT 132	Global
14	CSC 201 or MTH 288	4	CSC 201 Computer Science I	CS 112	Info Tech
15	MTH Course #1	3	MTH 266 Linear Algebra	MATH 203	DEGREE
16	MTH Course #2	3	STAT 260 Introduction to Statistical Practice I	STAT 260	DEGREE
17	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 2XX ENGH 2XX ENGH 2XX ENGH 2XX ENGH 2XX	Literature
18	ITE 115 or CSC 200	3	Any Mason CDS 100-200 level course (See: Advisor)	CDS	DEGREE
19	General Education Elective	4	CSC 202 Computer Science II OR CYSE 101 Introduction to Cyber Security Engineering	CS 211 CYSE 101	DEGREE
A. S. SCIENCE (MATH) DEGREE TOTAL		62			

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

NOTE: Students must earn a C or better on all major requirements, including any course(s) required for prerequisites. Students must complete 15-21 credits in a pre-approved minor, selected in consultation with the undergraduate coordinator. Courses taken to fulfill the minor requirements are not used to fulfill Major Core, Statistic Electives, or Technical Electives and are considered unique to the minor. At least 15 credits of minor coursework, technical electives, general electives must be at or above the 300 level.

	MASON DEGREE REQUIREMENT SEQUENCE	Credits	Course	MASON CORE/DEGREE EQUIVALENT	
20	Statistics Core	3	STAT 362 Introduction to Computer Statistical Packages	DEGREE	
21	Statistics Core	3	STAT 334 Introduction to Probability Models and Simulation OR STAT 346 Probability for Engineers	DEGREE	
22	Computational Skills Core	1	CS 105 Computer Ethics and Society OR CDS 151 Data Ethics in an Information Society	DEGREE	
23	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition (Natural Science Section)	Written Comm	
24	Statistics Electives	3	Any STAT course numbered 440-499**	DEGREE	
25	Statistics Core	3	STAT 354 Probability and Statistics for Engineers and Scientists II OR STAT 360 Introduction to Statistical Practice II	DEGREE	
26	Concentration/Minor requirement	3	Approved concentration/minor course (See: Advisor)	DEGREE	
27	Statistics Electives	3	Any STAT course numbered 440-499**	DEGREE	
28	Statistics Core	3	STAT 456 Applied Regression Analysis	DEGREE	
29	General Electives	3	General Elective (See: Advisor)	DEGREE	
30	Concentration/Minor requirement	3	Approved concentration/minor course (See: Advisor)	DEGREE	
31	Statistics Core	3	STAT 463 Introduction to Exploratory Data Analysis	DEGREE	
32	Concentration/Minor requirement	3	Approved concentration/minor course (See: Advisor)	DEGREE	
33	Statistics Core	3	STAT 489 Pre-Capstone Professional Development	Writing Intensive	
34	Concentration/Minor requirement	3	Approved concentration/minor course (See: Advisor)	DEGREE	
35	Concentration/Minor requirement	3	Approved concentration/minor course (See: Advisor)	DEGREE	
36	Statistics Electives	3	Any STAT course numbered 440-499**	DEGREE	
37	Minor requirement/General Elective	3	Approved minor course or General elective (See: Advisor)	DEGREE	
38	Concentration/Minor requirement	3	Approved concentration/minor course (See: Advisor)	DEGREE	
39	Gen Ed: Synthesis/Statistics Core	3	STAT 490 Capstone in Statistics	Synthesis	
B.S. STATISTICS DEGREE TOTAL		120			

Denotes a course that must be taken at George Mason University. Please see your Success Coach to enroll.

*Pathway assumes 18 credit minor for Applied Statistics concentration.

**May not be used to fulfill other degree requirements.

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 requirements