

A.S. Science/ B.S. Chemistry - No Concentration Pathway 2020-2021

A.S. Science

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 maintain a 2.5 cumulative GPA.
- 7. Students must apply for NOVA graduation and complete their Associate's degree.

	NOVA DEGREE	Credits	_	MASON	MASON
	REQUIREMENT		Courses	TRANSFER	CORE/DEGREE
	· 		CDV400 Callaga Consess Chilla OB	EQUIVALENT	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
			HIS 101 History of Western Civilization I OR	HIST 101	
3	HIS Course	3	HIS 102 History of Western Civilization II OR	HIST 102	Western Civ
			HIS 112 History of World Civilization II	HIST 125	
4	MTH 263	4	MTH 263 Calculus I	MATH 113	Quantitative
			MTH 167 Pre-Calculus with Trigonometry OR		
_		_	PHY 232 General University Physics II	MATH 105	· · · · · · · · · · · · · · · · · ·
5	MTH 167 or Science	5	(Only take PHY 232 at NOVA if placed directly into MTH 263 and MTH 167 is not needed)	PHYS 260-261-XXX	Elective or Majo
6	Science Course #1	5	PHY 231 General University Physics I	PHYS 160-161-266	Major
7	ENG 112	3	ENG 112 College Composition II	ENGH XXX	Elective
_	CCT Carrier	2	CST 100 Principles of Public Speaking OR	COMM 100	0
8	CST Course	3	CST 110 Introduction to Communication	COMM 101	Oral Comm
9	MTH 264	4	MTH 264 Calculus II	MATH 114	Major
LO	ITE 115 or General Education	4	CHM 111 General Chemistry I	CHEM 211-213	Nat Science
		3	ART 100 Art Appreciation OR	ARTH 101	Arts
			ART 101 History and Appreciation of Art I OR	ARTH 200	
11	Humanities/Fine Arts #1		ART 102 History and Appreciation of Art II OR	ARTH 201	
			CST 130 Introduction to Theatre OR	THR 101	
			CST 151 Film Appreciation I OR	ENGH L372	
			MUS 121 Music Appreciation I	MUSI 101	
			ECO 201 Principles of Macroeconomics OR	ECON 104	
			ECO 202 Principles of Microeconomics OR	ECON 103	
	Social/Behavioral Sciences #1	3	GEO 210 Introduction to Cultural Geography OR	GGS 103	Soc/Behav
			HIS 121 United States History I OR	HIST 121	
			HIS 122 United States History II OR	HIST 122	
L2			PLS 135 American National Politics OR	GOVT 103	
			PLS 211 United States Government I OR	GOVT 103	
			PSY 200 Principles of Psychology OR	PSYC 100	
			PSY 230 Developmental Psychology OR	PSYC 211	
			SOC 200 Principles of Sociology OR	SOCI 101	
			SOC 211 Principles of Anthropology I	ANTH 114	
L3	Math or Science #1	3	CHM 112 General Chemistry II	CHM 212-214	Major
14	Math or Science #2 (with lab below under line #19)	2	CHM 245 Organic Chemistry I - Laboratory	CHEM L315	Major

15 Science Course #2	3	CHM 241 Organic Chemistry I-Lecture	CHEM L313	Major
		GEO 220 World Regional Geography OR	GGS 101	Clabal
		HIS 111 History of World Civilization OR	HIST L387	
16 Carial/Baharianal Caianasa #3	2	PLS 140 Introduction to Comp Govt OR	GOVT 133	
16 Social/Behavioral Sciences #2	3	PLS 241 International Relations I OR	GOVT 132	Global
		PSY 219 Cross-Cultural Psychology OR	PSYC L379	
		SSC 115 Introduction to Global Affairs	GLOA 101	
	2	ENG 236 Introduction to the Short Story OR	GOVT 132 PSYC L379 GLOA 101 ENGH 202	Literature
		ENG 241 Survey of American Literature I OR		
17 House a sitile of Fine Auto #2		ENG 242 Survey of American Literature II OR		
17 Humanities/Fine Arts #2	3	ENG 251 Survey of World Literature I OR		
		ENG 252 Survey of World Literature II OR		
		ENG 253 Survey of African-American Literature I	HIST L387 GOVT 133 GOVT 132 PSYC L379 GLOA 101	
18 Math or Science #3	3	CHM 242 Organic Chemistry II - Lecture	CHEM L314	Major
Math or Science #2 (with lab above under line #14)	2	CHM 246 Organic Chemistry II - Laboratory	CHEM L318	Major
A.S. SCIENCE DEGREE TOTAL	60			

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

B.S. Chemistry - No Concentration

	MASON DEGREE REQUIREMENT	Credits	Course	MASON CORE/DEGREE EQUIVALENT
20	Physics Requirement OR General Electives	3-4	PHYS 260-261 University Physics II OR General Electives (if Physics sequence is complete) (See: Advisor)	Major
21	Mathematics Courses	4	MATH 213 Analytical Geometry and Calculus III	Major
2	Chemistry Courses	4	CHEM 321 Elementary Quantitative Analysis	Major
23	Chemistry Courses	5	CHEM 331 Physical Chemistry I AND CHEM 336 Physical Chemistry Lab I	Writing Intensive
24	Chemistry Courses	4	CHEM 463 General Biochemistry I	Major
25	Gen Ed: Written Communication (UL)	3	ENGH 302 Advanced Composition	Written Comm
6	Chemistry Courses	5	CHEM 332 Physical Chemistry I AND CHEM 337 Physical Chemistry II Lab	Major
7	Chemistry Courses	5	CHEM 422 Instrumental Methods of Chemical Analysis AND CHEM 423 Instrumental Methods of Chemical Analysis Lab	Major
28	General Electives	3	General Electives (See: Advisor) (Upper-level)	Major
9	Chemistry Courses	3	Chemistry Elective*	Major
0	Chemistry Courses	5	CHEM 441 Properties and Bonding of Inorganic Compounds AND CHEM 445 Inorganic Preparations and Techniques	Major
31	In-Depth Electives	3	Approved In-depth elective course**	Major
2	General Electives	3	General Electives (Upper-level See: Advisor)	Major
3	Gen Ed: Synthesis	3	Approved Synthesis Course***	Synthesis
4	Gen Ed: Information Technology	3	Approved IT Course***	Info Tech
35	General Electives	3-4	General Electives (See: Advisor)	Major
	. CHEMISTRY DEGREE	120		

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/

General Note: Students majoring in chemistry must complete the chemistry program requirements with a minimum GPA of 2.30 and present no more than two courses with a grade of 'D' (1.00) in CHEM coursework at graduation.

^{*}Any Chemistry lecture, lab, or research course

^{**}For approved In-Depth elective course, please visit: https://catalog.gmu.edu/colleges-schools/science/chemistry-biochemistry/chemistrybs/#requirementstext

^{***}For approved Mason Core courses, please visit - https://catalog.gmu.edu/mason-core/

Students interested in Pre-Health Professions (Pre-Med, Pre-Dentistry, Pre-Podiatry, Pre-Optometry, Pre-Veterinary, Pre-Pharmacy, Pre-Physician Assistant, Pre-Occupational Therapy, and Pre-Physical Therapy) are strongly encouraged to meet with the Health Professions Advisor regarding the appropriate prerequisite courses for their field of choice. For more information, please visit: https://prehealth.gmu.edu/

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