## A.S Science

## 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 $\mathbf{2 . 5}$ 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).

Program Notes: Students in the B.A. Chemistry program can choose between a Biochemistry Concentration or No Concentration. Students may wish to speak with a Mason Chemistry advisor to help select the appropriate concentration: chem@gmu.edu.

| NOVA DEGREE REQUIREMENT |  | 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 | General Elective |
| 2 | ENG 111 | 3 | ENG 111 College Composition $1^{1}$ | ENGH 101 | Written Comm |
| 3 | ITE 152 or General Education Elective | 4 | CHM 111 General Chemistry I | CHEM 211-213 | Major |
| 4 | MTH 167 | 5 | MTH 167 PreCalculus with Trigonometry | MATH 105 | General Elective |
| 5 | MTH 263 | 4 | MTH 263 Calculus I | MATH 113 | Quantitative |
| 6 | ENG 112 | 3 | ENG 112 College Composition II ${ }^{1}$ | ENGH XXX | General Elective |
| 7 | MTH 264 | 4 | MTH 264 Calculus II | MATH 114 | General Elective |
| 8 | Science Course \#1 | 4 | CHM 112 General Chemistry II | CHEM 212-214 | Major |
| 9 | Social/Behavioral Sciences \#1 | 3 | ECO 201 Principles of Macroeconomics OR <br> ECO 202 Principles of Microeconomics OR <br> GEO 210 People and the Land: An Introduction to Cultural <br> Geography OR <br> HIS 121 United States History to 1877 OR <br> HIS 122 United States History Since 1865 OR <br> PLS 135 U.S. Government and Politics OR <br> PSY 200 Principles of Psychology OR <br> PSY 230 Developmental Psychology OR <br> SOC 200 Introduction to Sociology OR <br> SOC 211 Cultural Anthropology | ECON 104 <br> ECON 103 <br> GGS 103 <br> HIST 121 <br> HIST 122 <br> GOVT 103 <br> PSYC 100 <br> PSYC 211 <br> SOCI 101 <br> ANTH 114 | Soc/Behav |
| 10 | HIS Course | 3 | HIS 101 Western Civilizations Pre-1600 CE OR HIS 102 Western Civilizations Post-1600 CE OR HIS 112 World Civilizations Post-1500 CE (recommended) |  | Global History |


| 1112 | Humanities/Fine Arts \#1 | $3$ | ART 100 Art Appreciation OR <br> ART 101 History of Art: Prehistoric to Gothic OR ART 102 History of Art: Renaissance to Modern OR CST 130 Introduction to Theatre OR CST 151 Film Appreciation I OR MUS 121 Music in Society | ARTH 101 <br> ARTH 200 <br> ARTH 201 <br> THR 101 <br> ENGH L372 <br> MUSI 101 | Arts |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Math or Science \#1 | 4 | BIO 101 General Biology I | BIOL 103/105 | Nat Science |
| 13 | Math or Science \#2 | $4$ | Biochemistry Concentration: <br> PHY 201 General College Physics I <br> No Concentration: <br> PHY 201 General College Physics I OR <br> PHY 241 University Physics I | PHYS 243-244 <br> PHYS 243-244 <br> PHYS 160-161 | Nat Science |
| 14 | Social/Behavioral Sciences \#2 <br> (Must select discipline different from Soc/Behav above) | 3 | GEO 220 World Regional Geography OR PLS 140 Introduction to Comparative Politics OR PLS 241 Introduction to International Relations | GGS 101 GOVT 133 GOVT 132 | Global Understanding |
| 15 | CST Course | 3 | CST 100 Principles of Public Speaking OR CST 110 Introduction to Human Communication | COMM 100 COMM 101 | Oral Comm |
| 16 | Humanities/Fine Arts \#2 | $3$ | ENG 225 Reading Literature: Culture and Ideas OR <br> ENG 245 British Literature OR <br> ENG 246 American Literature OR <br> ENG 255 World Literature OR <br> ENG 258 African American Literature OR <br> ENG 275 Women in Literature OR <br> Any 200-Level ENG Literature course ${ }^{2}$ | $\begin{aligned} & \text { ENGH } 202 \text { or } \\ & \text { FRLN L330 (ENG } \\ & 255 \text { only) } \end{aligned}$ | Literature |
| 17 | Math or Science \#3 | $4$ | Biochemistry Concentration: <br> PHY 202 General College Physics II <br> No Concentration: <br> PHY 202 General College Physics II OR PHY 242 University Physics II | PHYS 245-246 <br> PHYS 245-246 <br> PHYS 260-261 | Major |
| 18 | Science Course \#2 | 4 | BIO 206 Cell Biology | BIOL 213 | Major |
|  | SCIENCE DEGREE TOTAL | 62 |  |  |  |
| For academic policies and procedures, please see NOVA catalog - http://www.nvcc.edu/catalog/index.html |  |  |  |  |  |
| B.A. Chemistry |  |  |  |  |  |
| Concentrations: Biochemistry Concentration or No Concentration. |  |  |  |  |  |
|  | MASON DEGREE REQUIREMENT | Credits | Course |  | MASON CORE/DEGREE EQUIVALENT |
| 19 | Chemistry Courses | 5 | CHEM 313 Organic Chemistry I AND CHEM 315 Organic Chemistry Lab I |  | Major |
| 20 | College BA Requirement | 3 | Select additional Upper Level Mason Core Arts, Literature, Global Understanding, or Social and Behavioral Sciences ${ }^{3}$ (Course must be in a different discipline than selected at NOVA; See: Advisor) |  | COS BA Requirement |
| 21 | Mathematics Courses | 3 | No Concentration: <br> MATH 213 Analytical Geometry and Calculus III Biochemistry Concentration: <br> STAT 250 Statistics I |  | Major |
| 22 | College Requirement: Foreign Language | 6 | Approved foreign language course ${ }^{4}$ <br> Students may opt to take a two course, 101/102 sequence if available |  | Major |
| 23 | Gen Ed: Written Communication (Upperlevel) | 3 | ENGH 302 Advanced Composition |  | Written Comm |
| 24 | Chemistry Courses | 4 | CHEM 321 Quantitative Chemical Analysis |  | Major |
| 25 | Chemistry Courses | 5 | CHEM 314 Organic Chemistry II AND CHEM 318 Organic Chemistry Lab II |  | Major |



