## A.S. Biology / B.A. Biology Pathway <br> 2023-2024

## A.S. Biology <br> 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 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 $\mathbf{C}$ or better no later than one semester before NOVA graduation. Refer to your pathway to select the appropriate MTH course(s).

| NOVA DEGREE REQUIREMENT |  | Credits | Courses | MASON <br> 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 | MTH 167 | 5 | MTH 167 Pre-Calculus with Trigonometry ${ }^{2}$ | MATH 105 | General Elective |
| 4 | CHM 111 | 4 | CHM 111 General Chemistry I | CHEM 211-213 | Nat Science \& Major |
| 5 | HIS Elective | 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 |
| 6 | ENG 112 | 3 | ENG 112 College Composition II ${ }^{1}$ | ENGH XXX | General Elective |
| 7 | MTH 263 | 4 | MTH 263 Calculus I | MATH 113 | Quantitative |
| 8 | CHM 112 | 4 | CHM 112 General Chemistry II | CHEM 212-214 | Major |
| 9 | BIO 101 | 4 | BIO 101 General Biology ${ }^{3}$ | BIOL 103/105 |  <br> Major |
| 10 | Humanities/Fine Arts \#1 | 3-4 | ART 100 Art Appreciation OR <br> ART 101 History of Art: Prehistoric to Gothic OR <br> ART 102 History of Art: Renaissance to Modern OR <br> CST 130 Introduction to Theatre OR <br> CST 151 Film Appreciation I OR <br> MUS 121 Music in Society OR <br> Foreign Language 201 (if student places into language at 201/202 <br> level) ${ }^{4}$ | ARTH 101 <br> ARTH 200 <br> ARTH 201 <br> THR 101 <br> ENGH L372 <br> MUSI 101 <br> GMU Equivalent | Arts or Foreign Language |
| 11 | MTH 245 or MTH 264 or Lab Science | 4 | MTH 264 Calculus II OR BIO 256 General Genetics | MATH 114 <br> BIOL L311 | General Elective or Major |
| 12 | PHY 201 or GOL 105 (NOVA Catalog: BIO 102 or BIO 120) | 4 | PHY 201 General College Physics $\left.\right\|^{3,5}$ OR GOL 105 Physical Geology ${ }^{3}$ | PHYS 243-244 <br> GEOL 101/103 | Major |
| 13 | CST Course | 3 | CST 100 Principles of Public Speaking OR CST 110 Introduction to Human Communication | COMM 100 <br> COMM 101 | Oral Comm |


| 14 | 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 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | BIO 206 | 4 | BIO 206 Cell Biology | BIOL 213 | Major |
| 16 | Science Course (NOVA Catalog: MTH 245 or Lab Science) | 4 | PHY 201 General College Physics $1^{5}$ OR PHY 202 General College Physics II ${ }^{5}$ OR GOL 105 Physical Geology OR GOL 106 Historical Geology OR PHY 150 Elements of Astronomy | PHYS 243-244 <br> PHYS 245-246 <br> GEOL 101/103 <br> GEOL 102/104 <br> ASTR 111-112 | Major |
| 17 | Humanities/Fine Arts \#2 | 3-4 | 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 ${ }^{6}$ OR <br> Foreign Language 202 (if student places into language at 201/202 level) ${ }^{4}$ | ENGH 202 or FRLN L330 (ENG 255 only) GMU Equivalent | Literature or Foreign Language |
| 18 | Social/Behavioral Sciences \#2 | 3 | GEO 220 World Regional Geography OR PLS 140 Introduction to Comparative Politics OR PLS 241 Introduction to International Relations | GGS 101 <br> GOVT 133 <br> GOVT 132 | Global Understanding |
| A.S. BIOLOGY DEGREE TOTAL 62-64 |  |  |  |  |  |
| For academic policies and procedures, please see NOVA catalog - http://www.nvcc.edu/catalog/index.html |  |  |  |  |  |
| B.A. Biology |  |  |  |  |  |
| Students may select a concentration in Biological Illustration. See your Mason Biology advisor for more information. |  |  |  |  |  |
|  | MASON DEGREE REQUIREMENT | Credits | Course |  | MASON CORE/DEGREE EQUIVALENT |
| 19 | Biology Core Courses | 4 | BIOL 214 Biostatistics for Biology Majors |  | Major |
| 20 | Biology Core Courses | 4 | BIOL 311 General Genetics OR <br> General Electives (Upper-level See: Advisor) (if BIO 256 is completed at NOVA) |  | Major |
| 21 | College BA Requirement | 3 | Select additional Upper Level Mason Core Arts, Literature, Global Understanding, or Social and Behavioral Sciences ${ }^{7}$ (Course must be in a different discipline than selected at NOVA; See: Advisor) |  | COS BA Requirment |
|  | College Requirement: <br> Foreign Language | 0-6 | Approved foreign language course ${ }^{4,7}$ (required at Mason if foreign language is not completed at NOVA) |  | COS Foreign Lang. |
| 23 | Biology Core Courses | 4 | BIOL 300 BioDiversity ${ }^{3}$ |  | Major |
| 24 | College Requirement: Foreign Language or Gen Ed: Arts | 3 | Approved foreign language course ${ }^{4,7} \mathbf{O R}$ <br> Approved Arts course ${ }^{8}$ (if foreign language was taken at NOVA) |  | COS Foreign Lang. or Arts |
| 25 | Gen Ed: Written Communication (UL) | 3 | ENGH 302 Advanced Composition |  | Written Comm |
| 26 | Biology Electives | 4 | Any upper-level BIOL courses with lab |  | Major |
| 27 | Biology Core Courses | 5 | BIOL 308 Foundations of Ecology \& Evolution |  | Writing Intensive |
| 28 | Gen Ed: Synthesis | 3 | Approved Synthesis Course ${ }^{8}$ |  | Synthesis |
| 29 | College Requirement: Foreign Language or Literature | 3 | Approved foreign language course ${ }^{4,7} \mathbf{O R}$ <br> Approved Literature Course ${ }^{8}$ (ifforeign language was taken at NOVA) |  | COS Foreign Lang. or Literature |



