## 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.

### NOVA DEGREE REQUIREMENT SEQUENCE

<table>
<thead>
<tr>
<th>NOVA DEGREE REQUIREMENT SEQUENCE</th>
<th>Credits</th>
<th>Courses</th>
<th>MASON TRANSFER EQUIVALENT</th>
<th>MASON CORE/DEGREE EQUIVALENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 SDV Course</td>
<td>1</td>
<td>SDV 100 College Success Skills OR SDV 101 Orientation to XXX</td>
<td>UNIV 100</td>
<td>Elective</td>
</tr>
<tr>
<td>2 ENG 111</td>
<td>3</td>
<td>ENG 111 College Composition I</td>
<td>ENGH 101</td>
<td>Written Comm</td>
</tr>
<tr>
<td>3 HIS Course</td>
<td>3</td>
<td>HIS 101 History of Western Civilization I OR HIS 102 History of Western Civilization II</td>
<td>HIST 101</td>
<td>Western Civ</td>
</tr>
<tr>
<td>4 MTH 263</td>
<td>4</td>
<td>MTH 263 Calculus I</td>
<td>MATH 113</td>
<td>Quant</td>
</tr>
<tr>
<td>5 MTH 167 or Science</td>
<td>4</td>
<td>CHM 111 College Chemistry I</td>
<td>CHEM 211-213</td>
<td>NAT SCIENCE</td>
</tr>
<tr>
<td>6 ENG Course</td>
<td>3</td>
<td>ENG 125 Introduction to Literature</td>
<td>ENGH 201</td>
<td>Literature</td>
</tr>
<tr>
<td>7 CST Course</td>
<td>3</td>
<td>CST 100 Principles of Public Speaking OR CST 110 Introduction to Communication OR CST 126 Interpersonal Communication</td>
<td>COMM 100</td>
<td>Oral Comm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COMM 101</td>
<td>Oral Comm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COMM 101</td>
<td>Oral Comm</td>
</tr>
<tr>
<td>8 MTH 264</td>
<td>4</td>
<td>MTH 264 Calculus II</td>
<td>MATH 114</td>
<td>DEGREE</td>
</tr>
<tr>
<td>9 ITE 115 or General Education</td>
<td>4</td>
<td>CHM 112 College Chemistry II</td>
<td>CHEM 212-214</td>
<td>NAT SCIENCE</td>
</tr>
<tr>
<td>10 Science Course #1</td>
<td>5</td>
<td>PHY 231 General University Physics I</td>
<td>PHYS 160-161-266</td>
<td>NAT SCIENCE</td>
</tr>
<tr>
<td>11 Humanities/Fine Arts #1</td>
<td>3</td>
<td>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</td>
<td>ARTH 200</td>
<td>Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ARTH 201</td>
<td>Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>THR 101</td>
<td>Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ENGH L372</td>
<td>Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MUSI 101</td>
<td>Arts</td>
</tr>
<tr>
<td>12 Social/Behavioral Sciences #1</td>
<td>3</td>
<td>ECO 201 Principles of Macroeconomics OR GEO 210 Introduction to Cultural Geography OR HIS 121 United States History I OR PLS 211 United States Government I OR PSY 200 Introduction to Psychology OR SOC 200 Principles of Sociology</td>
<td>ECON 104</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GGS 103</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>HIST 121</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GOVT 103</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PSYC 100</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SOCI 101</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td>13 Math or Science #1</td>
<td>3</td>
<td>CHM 241 Organic Chemistry I-Lecture</td>
<td>CHEM L313</td>
<td>DEGREE</td>
</tr>
<tr>
<td>14 Math or Science #2 (with lab below)</td>
<td>2</td>
<td>CHM 245 Organic Chemistry I - Laboratory</td>
<td>CHEM L315</td>
<td>DEGREE</td>
</tr>
<tr>
<td>15 Science Course #2</td>
<td>5</td>
<td>PHY 232 General University Physics II</td>
<td>PHYS 260-261-XXX</td>
<td>NAT SCIENCE</td>
</tr>
<tr>
<td>16 Social/Behavioral Sciences #2</td>
<td>3</td>
<td>ECO 202 Principles of Microeconomics OR GEO 220 World Regional Geography OR PLS 241 International Relations I OR PSY 200 Introduction to Psychology OR SOC 200 Principles of Sociology OR SOC 211 Principles of Anthropology I</td>
<td>ECON 103</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GGS 101</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GOVT 132</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PSYC 100</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SOCI 101</td>
<td>Soc/Behav</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ANTH 120</td>
<td>Soc/Behav</td>
</tr>
</tbody>
</table>
For academic policies and procedures, please see NOVA catalog - http://www.nvcc.edu/catalog/index.html

Students in ADVANCE Chemistry Pathway are recommended to select the following concentration: Biochemistry

Note: B.S. with no concentration or a concentration in Analytical and Environmental Chemistry will require a different course sequencing.

See Academic Advisor to discuss graduation plan.

### MASON DEGREE REQUIREMENT SEQUENCE

<table>
<thead>
<tr>
<th>MAISON DEGREE REQUIREMENT SEQUENCE</th>
<th>Credits</th>
<th>Course</th>
<th>MASON CORE/DEGREE EQUIVALENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Courses</td>
<td>4</td>
<td>BIOL 213 Cell Structure &amp; Function</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Gen Ed: Written Communication (Upper level)</td>
<td>3</td>
<td>ENGH 302 Advanced Composition</td>
<td>Written Comm</td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
<td>General Electives (See: Advisor)</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>4</td>
<td>CHEM 321 Elementary Quantitative Analysis</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>5</td>
<td>CHEM 331 Physical Chemistry I AND CHEM 336 Physical Chemistry Lab I</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>4</td>
<td>CHEM 463 General Biochemistry I</td>
<td>DEGREE</td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
<td>General Electives (See: Advisor) (Upper-level)</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>5</td>
<td>CHEM 464 General Biochemistry II AND CHEM 465 Biochemistry Lab</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Biology Courses</td>
<td>4</td>
<td>BIOL 305 Biology of Microorganisms AND BIOL 306 Biology of Microorganisms Laboratory</td>
<td>DEGREE</td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
<td>General Electives (See: Advisor) (Upper-level)</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Approved Science Electives</td>
<td>3</td>
<td>CHEM/BIOL Elective**</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>3</td>
<td>CHEM 446 Bioinorganic Chemistry</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Approved Science Electives</td>
<td>3</td>
<td>CHEM/BIOL Elective**</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Approved Science Electives</td>
<td>3</td>
<td>CHEM/BIOL Elective**</td>
<td>DEGREE</td>
</tr>
<tr>
<td>Gen Ed: Synthesis</td>
<td>3</td>
<td>Approved Synthesis Course (See: Mason Catalog)</td>
<td>Synthesis</td>
</tr>
<tr>
<td>Gen Ed: Information Technology</td>
<td>3</td>
<td>Approved IT Course (See: Mason Catalog)</td>
<td>DEGREE</td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
<td>General Electives (See: Advisor) (Upper-level)</td>
<td>DEGREE</td>
</tr>
</tbody>
</table>

**CHEM or BIOL courses numbered 302-499. Other science or math courses may be approved as electives per prior approval of the coordinator.

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.

**CHEM or BIOL courses numbered 302-499. Other science or math courses may be approved as electives per prior approval of the coordinator.

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