I. Pathways to General Education (49 credit hours)
All courses used for the Pathways to General Education must be on the University’s approved list.

Pathway 1f – Foundational Discourse (6 credit hours)
______________________________________________________________________________________ 3__ ____________________________________________________________________________________________ 3__

Pathway 1a – Advanced Discourse (3 credit hours)
______________________________________________________________________________________ 3__

Pathway 2 – Critical Thinking in the Humanities (6 credit hours)
______________________________________________________________________________________ 3__ ____________________________________________________________________________________________ 3__

Pathway 3 – Reasoning in the Social Sciences (6 credit hours)
______________________________________________________________________________________ 3__ ____________________________________________________________________________________________ 3__

Pathway 4 – Reasoning in the Natural Sciences (8 credit hours)
1PHYS 2305 Foundations of Physics*  4__ 1PHYS 2306 Foundations of Physics*  4__

Pathway 5f – Foundational Quantitative and Computational Thinking (8 credit hours)
1MATH 1225 Calculus of a Single Variable*   4__ 1MATH 1226 Calculus of a Single Variable*  4__

Pathway 5a – Advanced Quantitative and Computational Thinking (3 credit hours)
1MATH 2214 Introduction to Differential Equations   3__

Pathway 6a – Critique and Practice in the Arts (3 credit hours)
______________________________________________________________________________________ 3__

Pathway 6d – Critique and Practice in Design (3 credit hours)
______________________________________________________________________________________ 3__

Pathway 7 – Critical Analysis and Equity and Identity in the United States (3 credit hours)
______________________________________________________________________________________ 3__

II. Nanoscience Degree Core Requirements (34 credit hours)

<table>
<thead>
<tr>
<th>FALL #</th>
<th>SPRING #</th>
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<tbody>
<tr>
<td>NANO 1015 Introduction to Nanoscience*</td>
<td>3__</td>
</tr>
<tr>
<td>1NANO 2114 Nanoscience Research Seminar*</td>
<td>1__</td>
</tr>
<tr>
<td>1NANO 3015 Nanoscale Synthesis, Fabrication, and Characterization*</td>
<td>4__</td>
</tr>
<tr>
<td>1NANO 3114 Professional Dissemination of Nanoscience Research*</td>
<td>1__</td>
</tr>
<tr>
<td>1NANO 4324 Introduction to Nanomedicine*</td>
<td>3__</td>
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III. Nanoscience Major Requirements (24 credit hours)

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<thead>
<tr>
<th>FALL #</th>
<th>SPRING #</th>
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</thead>
<tbody>
<tr>
<td>1CHEM 1035 General Chemistry*</td>
<td>3__</td>
</tr>
<tr>
<td>1CHEM 1045 General Chemistry Lab*</td>
<td>1__</td>
</tr>
<tr>
<td>1CHEM 2535 Organic Chemistry</td>
<td>3__</td>
</tr>
<tr>
<td>1CHEM 2545 Organic Chemistry Lab</td>
<td>1__</td>
</tr>
<tr>
<td>1MATH 2114 Intro to Linear Algebra</td>
<td>3__</td>
</tr>
<tr>
<td>1NANO 4124 Adv. Nanomaterials and Devices*</td>
<td>3__</td>
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</tbody>
</table>
IV. Free Electives (13 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tbody>
</table>

**Prerequisites**

Some courses on this checksheet have pre-/co-requisites. Students are required to double check course pre-/co-requisites and equivalents. Please see your advisor or consult the Undergraduate Course Catalog for more information.

**Acceptable Substitutions**

- BIOL 2124: BIOL 2104 Cell & Molecular Biology OR BIOL 2134 Cell Function Differentiation OR NEUR 3044 Cell Molecular Neuroscience
- CHEM 1035/1036: CHEM 1055/1056 General Chemistry for Majors
- CHEM 1045/1046: CHEM 1065/1066 General Chemistry Lab for Majors
- NANO 2024; PHYS 3324 Modern Physics OR NANO 2324 Quantum Mechanics for Nanomedicine
- NANO 3016: NANO 4334 Advanced Nanomedicine AND NANO 4354 Advanced Nanomedicine Lab
- MATH 2114: MATH 2114H
- CHEM 1035-1036, CHEM 1045-1046, PHYS 2305-2306:
  - ISC 1105-1106, ISC 1115-1116, ISC 2105-2106, ISC 2115-2116 Integrated Science I-II and Integrated Science Lab I-II

**Foreign Language Requirement**

Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete six semester hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward the hours required for graduation. Please consult the Undergraduate Catalog for details.

**Satisfactory Progress Towards Degree**

Upon having attempted 72 credit hours, the student will have completed NANO 1015-1016, MATH 1225-1226, CHEM 1035-1036, CHEM 1045-1046, PHYS 2305-2306.

**Graduation Requirements**

120 credit hours are required for graduation. These credits must include the courses required for the major (see above sections). To graduate, a student must have at least a 2.0 in-major GPA and overall GPA.

*In Major GPA: Courses marked with * will be used for computing the “in major” GPA.

Fall/Spring Course Offerings: Please consult with your advisor to ensure the courses are offered in the semester you intend to take them.

Undergraduate Research: All 8 credits are not taken in one semester. They are often split among different semesters.