## First Year

<table>
<thead>
<tr>
<th>Number</th>
<th>Course</th>
<th>Credits</th>
<th>Number</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 1010</td>
<td>Calculus I</td>
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<td>MATH 1020</td>
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<tr>
<td>CHEM 1110</td>
<td>Chemistry, I with Adv.Lab ¹</td>
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<td>CHEM 1200</td>
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<td>BIOL 2120</td>
<td>Intro. Cell &amp; Molecular Biol.</td>
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<tbody>
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<td>CHEM 2250</td>
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<td>CHEM 2260</td>
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<td>BIOL 2500</td>
<td>Genetics and Evolution</td>
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<tbody>
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<td>BCBP 4760</td>
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<td>BCBP 4770</td>
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<td>Restricted Elective  ⁵</td>
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## Fourth Year

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<tr>
<td>BCBP 4990</td>
<td>Culminating Experience ³</td>
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<td>Elective ⁵</td>
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<td>Elective</td>
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<td>Elective ⁵</td>
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Total credits must add up to 128.
*Either Fall or Spring semester will be away

¹ Students may substitute CHEM 1100 for CHEM 1110.
² Humanities, Arts & Social Science (HASS) courses should add up to 24 credits.
³ Students may substitute Macroscopic and Microscopic Physical Chemistry (CHEM 4410 & CHEM 4420).
⁴ Required course. Senior Research Thesis (BCBP 4990) is recommended; however, students may substitute any of the approved BIOL, BCBP, or CHEM culminating experience courses
⁵ Restricted Electives: at least 8 credits in science or engineering Molecular Biophysics Modules, Laboratory Option, and the Quantitative Option may be taken in different semesters than those shown if electives are shifted.
⁶ Molecular biophysics modules and laboratory options cannot be satisfied with transfer credits.

*Continued*
**Molecular Biophysics Modules** - Choose 2.
- BCBP 4310 Genetic Engineering
- BCBP 4780 Protein Folding
- BCBP 4870 Protein Structure Determination
- BCBP 4550 Molecular Modeling
- BCBP 4660 The Biology of Systems
- BCBP 4800 Methods in Biophysics

**Laboratory Option** - Choose 1.
- BCBP 4710 Biochemistry Laboratory
- BIOL 4720 Molecular Biology Laboratory

**Quantitative Option** - Choose 1
- CSCI 1010 Introduction to Computer Programming
- CSCI 1100 Computer Science I
- MATH 2010 Multivariable Calculus & Matrix Algebra
- MATH 2400 Introduction to Differential Equations
- MATH 4720 Mathematics in Medicine and Biology

**Approved Culminating Experience Courses:**
- BIOL 4100 From Neuron to Behavior
- BIOL 4250 Developmental Biology
- BIOL 4260 Advanced Cell Biology
- BIOL 4270 Human Physiology
- BIOL 4310 Microbiology
- BIOL 4350 Virology
- BIOL 4540 Sequence Analysis
- BIOL 4550 Molecular Modeling
- BIOL 4630 Molecular Biology II
- BIOL 4860 Evolution
- BIOL 4870 Lake George BLUE
- BCBP 4310 Genetic Engineering
- BCBP 4660 The Biology of Systems
- BCBP 4800 Methods in Biophysics
- BCBP 4870 Protein Structure Determination
- CHEM 4300 Medicinal Chemistry
- CHEM 4310 Bioorganic Mechanisms

**Summer Courses:**
- BIOL 1010/1015 Introduction to Biology (for non-majors)
- BIOL 2500 Genetics and Evolution
- BIOL 4200 Biostatistics
- BIOL 4270 Human Physiology
- BIOL 4320 Microbiology Lab
- BIOL 4620 Molecular Biology Lab
- BIOL/BCBP/CHEM 4760 Molecular Biochemistry I
- BIOL 4900 Team Research
- BIOL/BCBP 4940 Readings in Biology
- BIOL/BCBP 4970 Non-thesis Research

Revised March 2017