# Undergraduate Sample Program

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer (Recommended)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BIO SCI 93, CHEM 1A, WRITING 39B, PHRMSCI 1</td>
<td>BIO SCI 94, CHEM 1B, WRITING 39C</td>
<td>CHEM 1C/1LC, MATH 2A, GE</td>
<td>CHEM 1LD</td>
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<tr>
<td>Year 2</td>
<td>BIO SCI 97, CHEM 51A/1LD, MATH 2B, BIO SCI 194S</td>
<td>BIO SCI 98, CHEM 51B/51LB, PHRMSCI 42, GE</td>
<td>BIO SCI 99, CHEM 51C/51LC, GE, PHRMSCI 76</td>
<td>Study Abroad - UCEAP, PHRMSCI 120</td>
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<tr>
<td>Year 3</td>
<td>PHRMSCI 120, 120L, PHYSICS 3A, BIO SCI 100 (P/NP) or during Winter or Spring of 3rd year</td>
<td>PHRMSCI 170A, PHYSICS 3B/LB, STATS 7, 8 or MATH 2D, 3A</td>
<td>PHRMSCI 170B, PHYSICS 3C/LC, GE</td>
<td>Study Abroad - UCEAP</td>
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<tr>
<td>Year 4</td>
<td>PHRMSCI 171, PHRMSCI 172, PHRMSCI 174, 174L, GE</td>
<td>PHRMSCI 177, 177L, PHRMSCI UD Elective, GE</td>
<td>PHRMSCI 173, PHRMSCI UD Elective, UD</td>
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Upper Division Electives (8 units to graduate)

**Biological Sciences**
- D103 Cellular Biology
- D104 Developmental Biology
- D111L Developmental and Cell Biology Lab
- D126 Systems Biology of Human Disorders
- D129 Biotechnology and Plant Breeding
- D136 Human Anatomy
- D137 Eukaryotic and Human Genetics
- D145 Genomics and Proteomics
- D148 Development and Disease2
- D151 Advanced Cell Biology1
- D153 Molecular and Cellular Basics of Disease
- D170 Applied Human Anatomy
- E136 The Physiology of Human Nutrition
- E137 Genetics of Complex Traits
- E141 Cell Signaling in Development
- E142 Writing/Philosophy of Biology
- E189 Environmental Ethics
- M114 Advanced Biochemistry
- M114L Biochemistry Laboratory
- M116L Molecular Biology Laboratory
- M118L Experimental Microbiology Laboratory
- M120 Signal Transduction in Mammalian Cells
- M121 Immunology with Hematology
- M122 General Microbiology
- M122L General Microbiology Laboratory
- M123 Introduction to Computational Biology
- M124A Virology
- M124B Viral Pathogenesis and Immunity
- M124L Virus Engineering Laboratory
- M125 Molecular Biology of Cancer
- M128 Genetic Engineering
- M137 Microbial Genetics
- M143 Human Parasitology
- M144 Cell Organelles and Membranes
- N110 Neurobiology
- N113L Neurobiology Laboratory
- N153 Neuropharmacology
- N154 Molecular Neurobiology
- N171 Neurobiology of Transmitter Receptors

**Physical Sciences**
- 107 Inorganic Chemistry I
- 107L Inorganic Chemistry Laboratory
- 125 Advanced Organic Chemistry
- 128 Introduction to Chemical Biology
- 128L Introduction to Chemical Biology Lab Techniques
- 138 Introduction to Computational Organic Chemistry
- 156 Advanced Lab in Chemistry and Synthesis of Materials
- 160 Organic Synthesis Laboratory
- 170 Radioisotope Techniques

**Public Health**
- 121 Introduction to Complementary and Alternative Medicine