# Undergraduate Sample Program

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