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

### Upper Division Electives (8 units to graduate)

**Pharmaceutical Sciences**
- 163 Pharmacogenomics and Epigenetics
- 175 Drug Discovery Computing Techniques
- 179 Emerging Technologies in Pharmaceutical Sciences and Medicine

**Biological Sciences**
- D103 Cellular Biology (Fall/Winter)
- D104 Developmental Biology
- D111L Developmental and Cell Biology Lab
- D136 Human Anatomy (summer only, no lab)
- D145 Genomics and Proteomics
- D148 Development and Disease2
- D170 Applied Human Anatomy (includes lab)
- E136 The Physiology of Human Nutrition
- E142 Writing/Philosophy of Biology
- M114 Advanced Biochemistry
- M114L Biochemistry Laboratory
- M116L Molecular Biology Laboratory
- M118L Experimental Microbiology Laboratory (Fall/Winter/Spring)
- M121 Immunology with Hematology
- M122 General Microbiology (Fall/Winter/Spring)
- M123 Introduction to Computational Biology
- M124A Virology
- M124B Viral Pathogenesis and Immunity
- M124L Virus Engineering Laboratory
- M125 Molecular Biology of Cancer
- M137 Microbial Genetics
- M143 Human Parasitology
- M144 Cell Organelles and Membranes
- N110 Neurobiology
- N113L Neurobiology Laboratory
- N153 Neuropharmacology
- N154 Molecular Neurobiology

**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

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