## Undergraduate Sample Program

### Year 1
- **Fall**
  - BIO SCI 93 (4)
  - CHEM 1A (4)
  - PHRMSCI 1 (1, P/NP)
  - WRITING 39B (4)
- **Winter**
  - BIO SCI 94 (4)
  - CHEM 1B (4)
  - WRITING 39C (4)
- **Spring**
  - CHEM 1C/1LC (6)
  - MATH 2A (4)
  - GE
- **Requirements**
  - WR 39A must be completed before Fall 2nd year

### Year 2
- **Fall**
  - BIO SCI 97 (4)
  - CHEM 51A/1LD (6)
  - MATH 2B (4)
  - BIO SCI 194S (1, P/NP)
- **Winter**
  - BIO SCI 98 (4)
  - CHEM 51B/51LB (6)
  - PHRMSCI 42 (1)
- **Spring**
  - CHEM 51C/51LC (6)
  - MATH 2A (4, co-req for Physics 3A)
  - GE
- **Requirements**
  - WR 39C must be completed before Fall 3rd year
  - Math 2A is a co-req for Physics 3A
  - Study Abroad (optional)

### Year 3
- **Fall**
  - PHRMSCI 120, 120L (7)
  - PHYSICS 3A (4)
  - BIO SCI 100 (3, P/NP)
  - CHEM 51LD (2)
- **Winter**
  - PHRMSCI 170A (4)
  - PHYSICS 3B (4)
  - STATS 7, 8 or MATH 2D, 3A (4)
- **Spring**
  - PHRMSCI 170B (4)
  - PHYSICS 3C (4)
  - PHRMSCI 76 (2)
  - GE
- **Requirements**
  - Bio 100 & Physics 3C must be completed before Fall of 4th year
  - Study Abroad (optional)

### Year 4
- **Fall**
  - PHRMSCI 171 (4)
  - PHRMSCI 172 (2, P/NP)
  - PHRMSCI 174, 174L (7)
  - GE
- **Winter**
  - PHRMSCI 177, 177L (7)
  - UD Elective
  - GE
  - GE
- **Spring**
  - PHRMSCI 173 (4)
  - UD Elective
  - GE
  - GE
- **Requirements**
  - *180 minimum units needed to graduate

*Bolded courses MUST be taken in the indicated quarter/year

### 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
- N110 Neurobiology
- N113L Neurobiology Laboratory
- N153 Neuropharmacology
- N154 Molecular Neurobiology

#### Biological Sciences
- D103 Cellular Biology
- D104 Developmental Biology
- D111 Developmental and Cell Biology Lab
- D136 Human Anatomy (summer only, no lab)
- D145 Genomics and Proteomics
- D148 Development and Disease
- D170 Applied Human Anatomy (includes lab)
- E136 The Physiology of Human Nutrition
- E139 Animal Locomotion
- E142 Writing/Philosophy of Biology
- M114 Advanced Biochemistry
- M114L Biochemistry Laboratory
- M116L Molecular Biology Laboratory
- M118L Experimental Microbiology Laboratory
- M121 Immunology with Hematology
- M122 General Microbiology
- 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

#### 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
- 135 Medical Sociology
- 147 Drug Abuse Prevention