### Pre-PharmD Sample Program

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Winter</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Summer</strong> (Recommended)</td>
</tr>
</tbody>
</table>
| - BIO SCI 93  
- CHEM 1A  
- **PSYCH 7A or 9ABC or 11ABC**  
- PHRMSCI 1 | - BIO SCI 94  
- CHEM 1B  
- WRITING 39B  
- **ANTHRO 2A** | - CHEM 1C/1LC  
- MATH 2A  
- WRITING 39C | | |
| **Year 2** | **Year 3** | **Year 4** | **Year 4** |
| - BIO SCI 97  
- CHEM 51A/1LD  
- MATH 2B  
- BIO SCI 194S | - PHRMSCI 120, 120L  
- PHYSICS 3A  
- BIO SCI 100 (P/NP) or during Winter or Spring of 3rd year  
- **CHEM 51LD**  
- Research: BIO or PHRMSCI 199** | - PHRMSCI 170A  
- PHYSICS 3B/LB  
- **BIO SCI D103**  
- Research: BIO or PHRMSCI 199** | - PHRMSCI 171  
- PHRMSCI 172  
- PHRMSCI 174, 174L  
- GE Cat. IV  
- Research: BIO or PHRMSCI 199** |
| - BIO SCI 98  
- CHEM 51B/51LB  
- PHRMSCI 42  
- **STATS 7 or 8** | - PHRMSCI 170B  
- PHYSICS 3C/LC  
- GE Cat. IV  
- Research: BIO or PHRMSCI 199** | - PHRMSCI 177, 177L  
- GE Cat. IV  
- Research: BIO or PHRMSCI 199** | - PHRMSCI 173  
- **BIO SCI D170**  
- Research: BIO or PHRMSCI 199** |
| **Summer** | **Summer** | **Summer** | **Summer** |
| **Recommended** | **Recommended** | **Recommended** | **Recommended** |

* PharmD pre-requisites  
** Recommended
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 Disease 2
- D151 Advanced Cell Biology 1
- 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
- M110 Neurobiology
- M113L Neurobiology Laboratory
- M153 Neuropharmacology
- M154 Molecular Neurobiology
- M171 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