## Pre-PharmD Sample Program

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

**Biological Sciences**
- D103 Cellular Biology
- D104 Developmental Biology
- D111L 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
- N110 Neurobiology
- N113L Neurobiology Laboratory
- N153 Neuropharmacology
- N154 Molecular Neurobiology

**Physical Sciences**
- 107 Inorganic Chemistry I
- 107L Inorganic Chemistry Laboratory
- 125 Advanced Organic Chemistry
- 128L Introduction to Chemical Biology
- 138 Introduction to Computational Organic Chemistry
- 147 Drug Abuse Prevention
- 156 Advanced Lab in Chemistry and Synthesis of Materials
- 160 Organic Synthesis Laboratory
- 163 Pharmacogenomics and Epigenetics
- 175 Drug Discovery Computing Techniques
- 179 Emerging Technologies in Pharmaceutical Sciences and Medicine

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### 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

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### Year 2
- BIO SCI 97 (4)
- CHEM 51A/1LD (6)
- MATH 2B (4)
- BIO SCI 194S (1, P/NP)

### Year 3
- PHRMSCI 120, 120L (7)
- PHYSICS 3A (4)
- BIO SCI 100 (3, P/NP)
- CHEM 51LD (2)

### Year 4
- PHRMSCI 171 (4)
- PHRMSCI 172 (2, P/NP)
- PHRMSCI 174, 174L (7)
- GE

**Pre-PharmD Recommended Courses**
- Anthro 2A (GE III and VIII) - 4 units
- Psych 7A (GE III) - 4 units
- Soc 1 (GE III and VII) - 4 units
- Econ 20A (GE III) - 4 units
- Stats 7 (Math requirement) - 4 units
- PharmSci 90 - 4 units
- Physics 3LB & 3LC - 1.5 units each
- Research 199

**Public Health**
- 121 Introduction to Complementary and Alternative Medicine
- 135 Medical Sociology
- 147 Drug Abuse Prevention

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

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

*PharmD courses (can be taken at any time as long as prerequisites are met)