

Pre-PharmD Sample Program

	Fall	Winter	Spring	Summer (Recommended)
Year 1	<ul style="list-style-type: none"> BIO SCI 93 CHEM 1A PSYCH 7A or 9ABC or 11ABC* PHRMSCI 1 	<ul style="list-style-type: none"> BIO SCI 94 CHEM 1B WRITING 39B ANTHRO 2A* 	<ul style="list-style-type: none"> CHEM 1C/1LC MATH 2A WRITING 39C 	
Year 2	<ul style="list-style-type: none"> BIO SCI 97 CHEM 51A/1LD MATH 2B BIO SCI 194S 	<ul style="list-style-type: none"> BIO SCI 98 CHEM 51B/51LB PHRMSCI 42 STATS 7 or 8* 	<ul style="list-style-type: none"> BIO SCI 99 CHEM 51C/51LC PHRMSCI 76 PHRMSCI 90 or ECON 20A* 	<ul style="list-style-type: none"> PHRMSCI 90* ECON 20A* CHEM 51LD*
Year 3	<ul style="list-style-type: none"> 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** 	<ul style="list-style-type: none"> PHRMSCI 170A PHYSICS 3B/LB BIO SCI D103 Research: BIO or PHRMSCI 199** 	<ul style="list-style-type: none"> PHRMSCI 170B PHYSICS 3C/LC GE Cat. IV Research: BIO or PHRMSCI 199** 	<ul style="list-style-type: none"> BIO SCI M122 * BIO SCI M118L*
Year 4	<ul style="list-style-type: none"> PHRMSCI 171 PHRMSCI 172 PHRMSCI 174, 174L GE Cat. IV Research: BIO or PHRMSCI 199** 	<ul style="list-style-type: none"> PHRMSCI 177, 177L GE Cat. IV Research: BIO or PHRMSCI 199** 	<ul style="list-style-type: none"> PHRMSCI 173 BIO SCI D170* Research: BIO or PHRMSCI 199** 	

* 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 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