## Undergraduate Sample Program

### Fall

- **BIO SCI 93 (4)**
- **CHEM 1A (4)**
- **PHRMSCI 1 (1, P/NP)**
- **GE (4)**

### Winter

- **BIO SCI 94 (4)**
- **CHEM 1B (4)**
- **WRITING 39A/B/C (4)**
- **CHEM 1C/1LC (7)**
- **MATH 2A (4)**
- **WRITING 39A/B/C (4)**
- **GE**

### Spring

- **CHEM 1C/1LC (7)**
- **MATH 2A (4)**
- **WRITING 39A/B/C (4)**
- **GE**

### Requirements
- Math 1B only offered Fall, Winter, Summer
- WR 39A must be completed before Fall 2nd year

### Year 1

#### Fall

- **BIO SCI 97 (4)**
- **CHEM 51A/1LD (7)**
- **MATH 2B (4)**
- **GE**

#### Winter

- **BIO SCI 98 (4)**
- **CHEM 51B/51LB (7)**
- **PHRMSCI 42**
- **GE**

#### Spring

- **BIO SCI 99 (4)**
- **CHEM 51C/51LC (7)**
- **GE**
- **GE**
- **Math 2A is a co-req for Physics 3A**
- **Study Abroad (optional)**

### Year 2

#### Fall

- **PHRMSCI 120, 120L (6)**
- **PHYSICS 3A (4)**
- **BIO SCI 100 (3,P/NP)**
- **CHEM 51LD (3)**

#### 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/UD Elective #1**
- **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 171 (4)**
- **PHRMSCI 172 (2,P/NP)**
- **PHRMSCI 174, 174L (7)**
- **PHRMSCI 177, 177L (7)**
- **PHRMSCI Elective #2**
- **GE/UD Elective #2**
- **GE**

#### Winter

- **PHRMSCI 173 (4)**
- **GE/UD Elective #2**
- **GE**

### Requirements
- 180 minimum units needed to graduate
- Graduation application on StudentAccess due Week 2 of intended graduating quarter

### Year 4

#### Fall

- **PHRMSCI 171 (4)**
- **PHRMSCI 172 (2,P/NP)**
- **PHRMSCI 174, 174L (7)**
- **PHRMSCI 177, 177L (7)**
- **PHRMSCI Elective #2**
- **GE/UD Elective #2**
- **GE**

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

#### Pharmaceutical Sciences
- 155 Neuropsychopharmacology
- 163 Pharmacogenomics and Epigenetics
- 175 Drug Discovery/Computing Techniques
- 179 Emerging Technologies in Pharmaceutical Sciences and Medicine

#### 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 2
- 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
- M121 Immunology with Hematology
- M122 General Microbiology
- M123 Introduction to Computational Biology
- M124A Virology
- M124B Viral Pathogenesis and Immunity
- M125 Molecular Biology of Cancer
- M137 Microbial Genetics

#### 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

#### Pre-PharmD Recommended Courses
- Anthro 2A (GE III and VIII) - 4 units
- Psych 7A (GE III) - 4 units
- Socio 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

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

Pre-PharmD courses (common pre-requisites for pharmacy school)

Upper Division Electives (8 units to graduate)

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- 179 Emerging Technologies in Pharmaceutical Sciences and Medicine

**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 2
- 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
- M121 Immunology with Hematology
- M122 General Microbiology
- M123 Introduction to Computational Biology
- M124A Virology
- M124B Viral Pathogenesis and Immunity
- M125 Molecular Biology of Cancer
- M137 Microbial Genetics

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* 3 UCLC Health and Safety Modules are prerequisites for Upper Division Bio Labs and Bio Research (197, 198, 199)