The lower division course requirements and policies are applicable to students starting the program as Freshman at UCI.

NOTE: Students who do not pass bolded courses by the indicated quarters will be asked to change their major.

**Chemistry**

**General Chemistry: CHEM 1A**
- Must be taken Fall Year 1.
- Students must receive a grade of “C-” or above.

**General Chemistry: CHEM 1B**
- Must be taken Winter Year 1.
- Students must receive a grade of “C-” or above.
- CHEM 1A pre-requisite with a grade of “C-” or above.

**General Chemistry: CHEM 1C (or H2ABC)**
- Must be taken Spring Year 1.
- Students must receive a grade of “C-” or above.
- CHEM 1B pre-requisite with a grade of “C-” or above.

**General Chemistry Labs: CHEM 1LC (or H2LA)**
- Must be taken with CHEM 1C (coreq).
- Students must receive a grade of “C-” or above.
- CHEM 1B pre-requisite with a grade of “C-” or above.

**General Chemistry Labs: CHEM 1LD (or H2LB)**
- Must be taken Fall Year 2 or during summer prior.
- Students must receive a grade of “C-” or above.

**Organic Chemistry: CHEM 51A**
- Must be taken Fall Year 2
- CHEM 1LD co-requisite
- Students must receive a grade of “C-” or above.
- CHEM 1C and CHEM 1LC pre-requisite with a grade of “C-” or above.

**Organic Chemistry: CHEM 51B**
- Must be taken Winter Year 2
- CHEM 51LB co-requisite
- Students must receive a grade of “C-” or above.
- CHEM 51A and CHEM 1LD prerequisite with a grade of “C-” or above.

**Organic Chemistry Labs: CHEM 51LB**
- Must be taken winter quarter 2nd year with CHEM 51B (co-requisite).
- Students must receive a grade of “C-” or above.
- CHEM 51A and CHEM 1LD prerequisite with a grade of “C-” or above.

**Organic Chemistry: CHEM 51C**
- Must be taken Spring Year 2 with CHEM 51LC.
- Students must receive a grade of “C-” or above.
- CHEM 51B and CHEM 51LB prerequisite with a grade of “C-” or above.

**Organic Chemistry Labs: CHEM 51LC**
- Must be taken Spring Year 2 with CHEM 51C.
- Students must receive a grade of “C-” or above.
- CHEM 51B and CHEM 51LB pre-requisite with a grade of "C-" or above.

**Organic Chemistry Labs: CHEM 51LD**
- Students must receive a grade of “C-” or above.
- CHEM 51C and CHEM 51LC pre-requisite with a grade of “C-” or above.
**Biological Sciences**

**DNA to Organisms: BIO SCI 93**
- Must be taken Fall Year 1.
- Students must receive a grade of “D-” or above.

**Ecosystems: BIO SCI 94**
- Must be taken Winter Year 1.
- Students must receive a grade of “D-” or above.
- BIO SCI 93 pre-requisite with a grade of “D-” or above.

**Genetics: BIO SCI 97**
- Must be taken Fall Year 2.
- Students must receive a grade of “D-” or above.
- BIO SCI 94 pre-requisite with a grade of “D-” or above.

**Biochemistry: BIO SCI 98**
- Must be taken Winter Year 2.
- Students must receive a grade of “D-” or above.
- BIO SCI 97 pre-requisite with a grade of “D-” or above.

**Molecular Bio: BIO SCI 99**
- Must be taken Spring Year 2.
- Students must receive a grade of “D-” or above.
- BIO SCI 98 pre-requisite with a grade of “D-” or above.

**Mathematics**

**Calculus: MATH 2A**
- Student must receive a grade of “D-” or above.
- Enrollment into course is dependent on AP score and/or placement test.

**Calculus: MATH 2B**
- Student must receive a grade of “D-” or above.
- MATH 2A pre-requisite with a grade of “D-” or above.

**One course from STATS 7,8 or MATH 2D or MATH 3A**
- Student must receive a grade of “D-” or above.
- Pre-requisites vary depending on the course taken.

**Physics**

**Physics series: PHYSICS 3A (or 7C)**
- Must be taken prior to enrollment in PHYSICS 3B and 3C (or 7D and 7E); needs MATH 2A as co-requisite or pre-requisite.
- Students must receive a grade of “D-” or above.
- Can also be completed during summer of 2nd or 3rd year via Study Abroad - UCEAP.

**Physics series: PHYSICS 3B (or 7D)**
- Must be taken after completion of PHYSICS 3A (or 7C) pre-requisite.
- Students must receive a grade of “D-” or above.
- Can also be completed during summer of 2nd or 3rd year via Study Abroad - UCEAP.

**Basic Physics series: PHYSICS 3C (or 7E)**
- Must be completed BEFORE Fall Year 4; needs MATH 2B as a co-requisite or pre-requisite.
- Students must receive a grade of “D-” or above.
- Can also be completed during summer of 2nd or 3rd year via Study Abroad - UCEAP.

**Pharmaceutical Sciences**

**New Student Seminar: PHRMSCI 1**
- P/NP Course

**Life 101: PHRMSCI 42**
- Student must receive a grade of “C-” or above.

**Ethical Conduct of Research: PHRMSCI 76**
- Students must receive a grade of “C-” or above.
**Pharmaceutical Sciences**

**Molecular Pharmacology I:** PHRMSCI 170A  
- Must be taken Winter Year 3.  
- Students must receive a grade of “C-” or above.  
- Bio Sci E109 & Chem 51C pre-requisites with a grade of “C-” or above.

**Molecular Pharmacology II:** PHRMSCI 170B  
- Must be taken Spring Year 3.  
- Students must receive a grade of “C-” or above.  
- Pharmsci 170A pre-requisite with a grade of “C-” or above.

**Biophysical Chemistry:** PHRMSCI 171  
- Must be taken Fall Year 4.  
- Students must receive a grade of “C-” or above.  
- Math 2B, Physics 3C, Chem 1C and Bio 99 pre-requisite courses with a grade of “C-” or above.

**Topics in Pharmaceutical Sciences:** PHRMSCI 172  
- P/NP Course.  
- Students must receive a grade of “C-” or above.  
- Bio 99 and Chem 51C pre-requisite courses with a grade of “C-” or above.

**Pharmacotherapy:** PHRMSCI 173  
- Students must receive a grade of “C-” or above.  
- PHRMSCI 170B pre-requisite/co-requisite requirement with a grade of “C-” or above.

**Biopharmaceutics and Nanomedicine:** PHRMSCI 174  
- Must be taken Fall Year 4.  
- Students must receive a grade of “C-” or above.  
- PHRMSCI 170B pre-requisite course with a grade of “C-” or above.

**Biopharmaceutics and Nanomedicine Lab:** PHRMSCI 174L  
- Must be taken Fall Year 4.  
- Students must receive a grade of “C-” or above.  
- BIO SCI 100 and PHRMSCI 174 pre-requisite courses with a grade of “C-” or above.

**Medicinal Chemistry:** Pharm Sci 177  
- Must be taken Winter Year 4.  
- Students must receive a grade of “C-” or above.  
- BIO SCI 98 and CHEM 51C pre-requisite courses with a grade of “C-” or above.

**Medicinal Chemistry Lab:** PHRMSCI 177L  
- Must be taken Winter Year 4.  
- Students must receive a grade of “C-” or above.  
- BIO SCI 100 and CHEM 51C pre-requisite courses with a grade of “C-” or above.

**Biological Sciences**

**Scientific Writing:** BIO SCI 100  
- Must be completed by 3rd year.  
- Students must receive a grade of “C-” or above.  
- BIO SCI 99 pre-requisite with a grade of “C-” or above.  
- CAN be taken P/NP.

**Physiology:** BIO SCI E109  
- Must be taken Fall Year 3.  
- Students must receive a grade of “D-” or above.  
- BIO SCI 99 pre-requisite with a grade of “C-” or above.

**Upper Division Electives (8 units total)**

Students must meet course criteria per department policies. Upper division electives taken towards the PharmSci requirements must be taken for a letter grade. Students must receive a grade of “D-” or above in these courses.
**Additional Undergraduate Pharmaceutical Science Courses**
*(not required for major)*

PHRMSCI 3: Professional Development and Careers
- P/NP Course

PHRMSCI 90: Speaking Science
*(Required for Pharmacy school)*
- Students must receive a grade of “C-” or above.

PHRMSCI 120L: Human Physiology Lab
- Students must receive a grade of “C-” or above.

PHRMSCI 122L: Medicinal Microbiology Lab
- Students must receive a grade of “C-” or above.

PHRMSCI 142: Healthspan Sciences
- Students must receive a grade of “C-” or above.

PHRMSCI 155: Neuropsychopharmacology
- Students must receive a grade of “C-” or above.

PHRMSCI 163: Pharmacogenomics
- Students must receive a grade of “C-” or above.

PHRMSCI 175: Drug Discovery Computing Techniques
- Students must receive a grade of “C-” or above.

PHRMSCI 179: Emerging Technology in Pharmaceutical Sciences and Medicine
- Students must receive a grade of “C-” or above.

PHRMSCI 198: Independent Study

PHRMSCI 199: Undergraduate Research

PHRMSCI H199: Honors Undergraduate Research