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.

### Biological Sciences

**DNA to Organisms:** BIO SCI 93
- Must be taken Fall quarter 1st year along with CHEM 1A.
- Students must receive a grade of “D-” or above.

**Ecosystems:** BIO SCI 94
- Must be taken Winter quarter 1st year along with CHEM 1B.
- 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 quarter 2nd year along with CHEM 51A.
- 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 quarter 2nd year along with CHEM 51B/LB.
- 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 quarter 2nd year along with CHEM 51C/LC.
- Students must receive a grade of “D-” or above.
- BIO SCI 98 pre-requisite with a grade of “D-” or above.

### Chemistry

**General Chemistry:** CHEM 1A
- Must be taken Fall quarter 1st year along with BIO SCI 93.
- Students must receive a grade of “C-” or above.

**General Chemistry:** CHEM 1B
- Must be taken Winter quarter 1st year along with BIO SCI 94.
- 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 quarter 1st year.
- 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
- 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
- Must be taken Fall quarter 2nd year or during summer prior.
- Students must receive a grade of “C-” or above.

**Organic Chemistry:** CHEM 51A
- Must be taken Fall quarter 2nd year along with BIO SCI 97 (co-requisite) and 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 quarter 2nd year along with BIO SCI 98 (co-requisite) and 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: CHEM 51C
- Must be taken Spring quarter 2nd year along with BIO SCI 99 (co-requisite) and CHEM 51LC (co-requisite).
- 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 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 Labs: CHEM 51LC
- Must be taken Spring quarter 2nd year with CHEM 51C (co-requisite).
- 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 51LD (Pharmacy school prerequisite only)
- Students must receive a grade of “C-” or above.
- CHEM 51C and CHEM 51LC pre-requisite with a grade of “C-” 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

Basic Physics series: PHYSICS 3A
- Must be taken prior to enrollment in PHYSICS 3B and 3C, and after completion of MATH 2A pre-requisite/placement exam or via authorization, during 3rd year.
- 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 3B
- Must be taken after completion of PHYSICS 3A 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
- Must be taken BEFORE Fall quarter 4th year after completion of MATH 2B pre-requisite/placement exam or via authorization.
- 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 Lab series: PHYSICS 3LB
- Must be taken with or after completion of PHYSICS 3B.
- Student must receive a grade of “D-” or above.

Basic Physics Lab series: PHYSICS 3LC
- Must be taken before graduation.
- Students must receive a grade of “D-” or above.

Classical Physics series: PHYSICS 7C
- Must be taken prior to enrollment in PHYSICS 7D and 7E, and after completion of MATH 2A pre-requisite/placement exam or via authorization, during 3rd year.
- Students must receive a grade of “D-” or above.

Classical Physics series: PHYSICS 7D
- Must be taken after completion of PHYSICS 7E pre-requisite.
- Students must receive a grade of “D-” or above.
Classical Physics series: PHYSICS 7E
- Must be taken BEFORE Fall quarter 4th year after completion of MATH 2B pre-requisite/placement exam of via authorization.
- Students must receive a grade of "D-" or above.

Classical Physics series: PHYSICS 7LC
- Must be taken Fall quarter 3rd year with PHYSICS 7C.
- Student must receive a grade of “D-” or above.

Classical Physics series: PHYSICS 7LD
- Must be taken Winter quarter 3rd year with PHYSICS 7D.
- Student must receive a grade of “D-” or above.

**Pharmaceutical Sciences**

New Student Seminar: PHRMSCI 1
- P/NP Course

Life 101: PHRMSCI 42
- Student must receive a grade of "D-" or above.

Ethical Conduct of Research: PHRMSCI 76
- Students must receive a grade of “C-” or above.
Upper Division
Course Requirement Policies

**Biological Sciences**

**Scientific Writing: BIO SCI 100**
- Can be taken during Fall, Winter, or Spring quarter during 3rd year. 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.

**Pharmaceutical Sciences**

**Human Physiology: PHRMSCI 120 (can be substituted by BIO SCI E109)**
- Must be taken Fall quarter junior year.
- Students must receive a grade of “C-” or above.
- BIO SCI 99 pre-requisite with a grade of “C-” or above.

**Human Physiology Lab: PHRMSCI 120L**
- Must be taken fall quarter junior year.
- Students must receive a grade of “C-” or above.
- BIO SCI 99 pre-requisite with a grade of “C-” or above.

**Molecular Pharmacology I: PHRMSCI 170A**
- Must be taken Winter quarter junior year.
- Students must receive a grade of “C-” or above.
- Pharmsci 120 & Chem 51C pre-requisites with a grade of “C-” or above.

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

**Biophysical Chemistry: PHRMSCI 171**
- Must be taken Fall quarter senior year.
- 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**
- Must be taken Fall quarter senior year.
- Students must receive a grade of “C-” or above.
- Bio 99 and Chem 51C pre-requisite courses with a grade of “C-” or above.
- Can be taken P/NP.

**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 quarter senior year.
- 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 quarter senior year.
- 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 quarter senior year.
- 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 quarter senior year.
- 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.
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 “D-“ or above.

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

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

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

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

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

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

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

PHRMSCI 198: Independent Study

PHRMSCI 199: Undergraduate Research

PHRMSCI H199: Honors Undergraduate Research
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