

Lower Division Course Requirement Policies

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

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 "C-" or above.

Ecosystems: BIO SCI 94

- Must be taken winter quarter 1st year along with CHEM 1B.
- Students must receive a grade of "C-" or above.
- BIO SCI 93 prerequisite with a grade of "C-" or above.

Genetics: BIO SCI 97

- Must be taken fall quarter 2nd year along with CHEM 51A.
- Students must receive a grade of "C-" or above.
- BIO SCI 94 prerequisite with a grade of "C-" 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 94.
- Students must receive a grade of "C-" or above.
- CHEM 1A prerequisite 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 prerequisite with a grade of "C-" or above.

General Chemistry Labs: CHEM 11C

- Must be taken with CHEM 1C (coreq).
- Students must receive a grade of "C-" or above.
- CHEM 1B prerequisite with a grade of "C-" or above.

General Chemistry Labs: CHEM 11D

- 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 (coreq) and CHEM 11D (coreq).
- Students must receive a grade of "C-" or above.
- CHEM 1C and CHEM 11C prerequisite with a grade of "C-" or above.

Biochemistry: BIO SCI 98

- Must be taken winter quarter 2nd year along with CHEM 51B/LB.
- Students must receive a grade of "C-" or above.
- BIO SCI 97 prerequisite with a grade of "C-" 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 "C-" or above.
- BIO SCI 98 prerequisite with a grade of "C-" or above.

Safety and Ethics: BIO SCI 194S

Course can be taken P/NP.

- Must take prior to research/199.

Organic Chemistry: CHEM 51B

- Must be taken winter quarter 2nd year along with BIO SCI 98 (coreq) and CHEM 51LB (coreq).
- Students must receive a grade of "C-" or above.
- CHEM 51A and CHEM 11D prerequisite with a grade of "C-" or above.

Organic Chemistry: CHEM 51C

- Must be taken spring quarter 2nd year along with BIO SCI 99 (coreq) and CHEM 51LC (coreq).
- 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 (coreq).
- Students must receive a grade of "C-" or above.
- CHEM 51A and CHEM 11D prerequisite with a grade of "C-" or above.

Organic Chemistry Labs: CHEM 51LC

- Must be taken spring quarter 2nd year with CHEM 51C (coreq).
- 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 prerequisite with a grade of "C-" or above.

UCI Pharmaceutical Sciences

Mathematics

Calculus: MATH 2A

- Student must receive a grade of "C-" or above.
- Enrollment into course is dependent on AP score and/or placement test.

Calculus: MATH 2B

- Student must receive a grade of "C-" or above.
- MATH 2A prerequisite with a grade of "C-" or above.

Physics

Basic Physics series: PHYSICS 3A

- Must be taken fall quarter 3rd year after completion of MATH 2A prerequisite/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 series: PHYSICS 3B

- Must be taken winter quarter 3rd year after completion of PHYSICS 3A prerequisite.
- 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 spring quarter 3rd year after completion of MATH 2B prerequisite/placement exam or via authorization.
- Students must receive a grade of "C-" 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 winter quarter 3rd year with PHYSICS 3C.
- Student must receive a grade of "D-" or above.

Basic Physics Lab series: PHYSICS 3LC

- Must be taken spring quarter 3rd year.
- Students must receive a grade of "C-" or above.

Pharmaceutical Sciences

Life 101: PHRMSCI 42

- Must receive "P"/Pass.

One course from STATS 7,8 or MATH 2D or MATH 3A

- Student must receive a grade of "C-" or above.
- Prerequisites vary depending on the course taken.

Classical Physics series: PHYSICS 7C

- Must be taken fall quarter 3rd year after completion of MATH 2B prerequisite/placement exam or via authorization and PHYSICS 7LC (coreq).
- Students must receive a grade of "C-" or above.

Classical Physics series: PHYSICS 7D

- Must be taken winter quarter 3rd year after completion of PHYSICS 7C, MATH 2B and co-enrollment into MATH 2D and PHYSICS 7LD.
- Students must receive a grade of "D-" or above.

Classical Physics series: PHYSICS 7E

- Must be taken spring quarter 3rd year after completion of PHYSICS 7C, and MATH 2B.
- Students must receive a grade of "C-" 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 "C-" 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

- Must be taken fall quarter 3rd year.
- Students must receive a grade of "C-" or above.
- Bio 99 prerequisite 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 prerequisite 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 99 prerequisite 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 prerequisites 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 prerequisites 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 prerequisite 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.

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.

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 prerequisite 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 100 and PharmSci 174 prerequisite 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 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 prerequisite courses with a grade of "C-" or above.

UCI Pharmaceutical Sciences

Additional Undergraduate Pharmaceutical Sciences Courses (not required for major)

PHRMSCI 1: New Student Seminar

- P/NP Course.

PHRMSCI 90: Speaking Science (Required for pharmacy school)

- Students must receive a grade of "D-" or above.

PHRMSCI 163: Pharmacogenomics

- Students must receive a grade of "D-" or above.

PHRMSCI 198: Independent Study

- P/NP Course.

PHRMSCI 199: Undergraduate Research

- P/NP Course.

PHRMSCI H199: Honors Undergraduate Research

- P/NP Course.

Pharmaceutical Sciences Prerequisite & Co-Requisite Course Chart

Course	Pre-Requisite	Co-Requisite
PHRMSCI 90 Speaking about Science	--	--
PHRMSCI 120 Human Physiology	BIO SCI 99	--
PHRMSCI 120L Human Physiology Lab	--	PHRMSCI 120
PHRMSCI 163 Pharmacogenomics and Epigenetics	BIO SCI 99	--
PHRMSCI 170A Pharmacology I	CHEM 51C PHRMSCI 120	CHEM 51C
PHRMSCI 170B Pharmacology II	PHRMSCI 170A	--
PHRMSCI 171 Physical Biochemistry	MATH 2B PHYSICS 3C CHEM 1C BIO SCI 99	
PHRMSCI 172 Topics in PharmSci	BIO 99 CHEM 51C	CHEM 51C
PHRMSCI 173 Pharmacotherapy	PHRMSCI 170B	PHRMSCI 170B
PHRMSCI 174 Biopharmaceutics and Nanomedicine	PHRMSCI 170B	--
PHRMSCI 174L Biopharmaceutics and Nanomedicine Lab	PHRMSCI 170B BIO SCI 100	
PHRMSCI 177 Medicinal Chemistry	CHEM 51A CHEM 51B CHEM 51C BIO SCI 98	--
PHRMSCI 177L Medicinal Chemistry Lab	CHEM 51A CHEM 51B CHEM 51C BIO SCI 100	PHRMSCI 177