

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Irvine  
2022-2023 General Catalog, Quarter

From: De Anza College  
2022-2023 General Catalog, Quarter

## Pharmaceutical Sciences, B.S.

### GENERAL INFORMATION

The major in Pharmaceutical Sciences is open to all students who meet the specified course and grade requirements.

#### Required for admission:

**Students must have a cumulative GPA of 3.0 (3.4 for TAG) and grades of B or better in all required courses:**

- Complete one year of general chemistry with laboratory equivalent to UCI's Chemistry 1A/1B/1C and 1LC/1LD with a grade of B or better
- Complete one year of organic chemistry with laboratory equivalent to UCI's Chemistry 51A/51B/51C and 51LB/51LC/51LD with a grade of B or better
- Complete one year of general biology courses equivalent to UCI's Biological Sciences 93 and 94 with a grade of B or better
- Complete one quarter or semester of genetics equivalent to UCI's Biological Sciences 97 with a grade of B or better

#### Recommended for admission/Time to degree:

**The following courses are not required for admission, however the degree cannot be completed in two years without them:**

- Complete one quarter or semester of biochemistry equivalent to UCI's Biological Sciences 98 with a grade of B or better
- Complete one quarter or semester of molecular biology equivalent to UCI's Biological Sciences 99 with a grade of B or better

Transfer students are advised to complete as many lower-division articulated degree requirements as possible prior to transfer. For information, contact the Pharmaceutical Sciences Student Affairs Office at (949) 824-1991, [www.pharmsci.uci.edu](http://www.pharmsci.uci.edu).

**NOTE:** Once enrolled at UCI, Pharmaceutical Sciences majors may only take UCI courses to satisfy major requirements.

**Important:** Articulation of General Chemistry is based on the completion of the entire year. Students wishing information on course-to-course equivalencies (semester to quarter) should contact the Pharmaceutical Sciences Student Affairs Office at (949) 824-1991, [www.pharmsci.uci.edu](http://www.pharmsci.uci.edu).

To complete the Mathematics Requirement before enrolling at UCI, students must complete two semesters of Calculus and one additional approved course in Mathematics.

**NOTE:** In fulfillment of the requirements below, a single course may be used only once.

For information regarding the [AP and IB examination](#) credit policies refer to the UCI General Catalogue.

For more information regarding the UC Irvine Transfer Admission Guarantee Program, please visit [TAG](#)

### MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

**CHEM 1A** - General Chemistry (4.00)

--- And ---

**CHEM 1B** - General Chemistry (4.00)

--- And ---

**CHEM 1C** - General Chemistry (4.00)

--- And ---

**CHEM 1LC** - General Chemistry Laboratory (3.00)

--- And ---

**CHEM 1LD** - General Chemistry Laboratory (3.00)

**CHEM 1A** - General Chemistry (5.00)

--- And ---

**CHEM 1B** - General Chemistry (5.00)

--- And ---

**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00)

--- Or ---

**CHEM 1AH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1BH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00)

**BIO SCI 93** - DNA to Organisms (4.00)

**BIOL 6B** - Cell and Molecular Biology (6.00)

**BIO SCI 94** - Organisms to Ecosystems (4.00)



**BIOL 6A** - Form and Function in the Biological World (6.00)

--- And ---

**BIOL 6C** - Ecology and Evolution (6.00)

--- Or ---

**BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)

--- And ---

**BIOL 6CH** - Ecology and Evolution - HONORS (6.00)

**BIO SCI 97** - Genetics (4.00)



No Course Articulated



**CHEM 51A** - Organic Chemistry (4.00)

--- And ---

**CHEM 51LB** - Organic Chemistry Laboratory (3.00)

--- And ---

**CHEM 51B** - Organic Chemistry (4.00)

--- And ---

**CHEM 51LC** - Organic Chemistry Laboratory (3.00)

--- And ---

**CHEM 51C** - Organic Chemistry (4.00)

--- And ---

**CHEM 51LD** - Organic Chemistry Laboratory (3.00)

**CHEM 12A** - Organic Chemistry (5.00)

--- And ---

**CHEM 12B** - Organic Chemistry (5.00)

--- And ---

**CHEM 12C** - Organic Chemistry (5.00)

## MAJOR PREPARATION COURSES NECESSARY TO GRADUATE IN TWO YEARS

**BIO SCI 98** - Biochemistry (4.00)



No Course Articulated

**BIO SCI 99** - Molecular Biology (4.00)



No Course Articulated

## ADDITIONAL APPROVED COURSES FOR THE MAJOR

**BIO SCI 100** - Scientific Writing (3.00)



No Course Articulated

**PHYSICS 3A** - Basic Physics I (4.00)

--- And ---

**PHYSICS 3B** - Basic Physics II (4.00)

--- And ---

**PHYSICS 3C** - Basic Physics III (4.00)

**PHYS 2A** - General Introductory Physics (5.00)

--- And ---

**PHYS 2B** - General Introductory Physics (5.00)

--- And ---

**PHYS 2C** - General Introductory Physics (5.00)

--- Or ---

**PHYSICS 7C** - Classical Physics (4.00)

--- And ---

**PHYSICS 7D** - Classical Physics (4.00)

--- And ---

**PHYSICS 7E** - Classical Physics (4.00)

**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- And ---

**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- And ---

**PHYS 4C** - Physics for Scientists and Engineers: Fluids, Waves, Optics and Thermodynamics (6.00)

## TWO SEMESTERS OF CALCULUS AND ONE ADDITIONAL APPROVED COURSE IN MATHEMATICS

**MATH 2A** - Single-Variable Calculus (4.00)



**MATH 1A** - Calculus (5.00)

--- Or ---

**MATH 1AH** - Calculus - HONORS (5.00)

<b>MATH 2B</b> - Single-Variable Calculus (4.00)	←	<b>MATH 1B</b> - Calculus (5.00) <div>--- Or ---</div> <b>MATH 1BH</b> - Calculus - HONORS (5.00)
<b>STATS 7</b> - Basic Statistics (4.00)	←	<b>MATH 10</b> - Introductory Statistics (5.00) <div>--- Or ---</div> <b>MATH 10H</b> - Introductory Statistics - HONORS (5.00) <div>--- Or ---</div> <b>PSYC 15</b> - Statistics and Research Methods in Social Science (4.00) Same-As: SOC 15
<b>STATS 8</b> - Introduction to Biological Statistics (4.00)	←	<b>MATH 10</b> - Introductory Statistics (5.00) <div>--- Or ---</div> <b>MATH 10H</b> - Introductory Statistics - HONORS (5.00) <div>--- Or ---</div> <b>PSYC 15</b> - Statistics and Research Methods in Social Science (4.00) Same-As: SOC 15
<b>MATH 2D</b> - Multivariable Calculus (4.00)	←	<b>MATH 1D</b> - Calculus (5.00) <div>--- Or ---</div> <b>MATH 1DH</b> - Calculus - HONORS (5.00)
<b>MATH 3A</b> - Introduction to Linear Algebra (4.00)	←	<b>MATH 2B</b> - Linear Algebra (5.00) <div>--- Or ---</div> <b>MATH 2BH</b> - Linear Algebra - HONORS (5.00)

**END OF AGREEMENT**