



# Cerritos College

## BIOLOGY

### Transfer Preparation

#### COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY

			UNITS
BIOL	200	Principles of Biology	5
BIOL	201	Principles of Biology	5
CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
PHYS	101	General Physics	4
PHYS	102	General Physics	4

#### ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

##### California State Polytechnic University – Pomona

CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
ENGL	100	Freshman Composition	4
ENGL	102	Freshman Composition and Literature	3
<i>or</i> ENGL	103	Critical and Argumentative Writing	(3)
<i>or</i> PHIL	106	Introduction to Logic	(3)
HED	100	Contemporary Health Problems	3
<i>or</i> PSYC	101	General Introductory Psychology	(3)
<i>or</i> PSYC	150	Personal and Social Adjustment	(3)
<i>or</i> PSYC	241	Introduction to Psychobiology	(3)
MATH	112	Elementary Statistics	4
<i>or</i> PSYC	210	Elementary Statistics	(4)
MATH	116	Calculus for Managerial, Biological and Social Sciences	4
MICR	200	Principles & Applications of Microbiology	5

##### California State University – Dominguez Hills

***CSUDH offers a Biology B.A. degree and a Biology B.S. degree. There are three options within the Biology B.S. degree: "Cellular & Molecular Biology", "Ecology & Environmental Biology", and "Microbiology".***

BIOL	202*	Molecular Biology/Genetics	4
MATH	112	Elementary Statistics	4
MATH	170**	Analytic Geometry and Calculus I	4
<i>or</i> MATH	116	Calculus for Managerial, Biological and Social Sciences	(4)

\*Not required for the Microbiology option.

\*\*Required for B.S. Degree only.

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## Transfer Preparation

**NOTE:** PHYS 201 & PHYS 202 & PHYS 203 may substitute for PHYS 101 & PHYS 102 for the B.S. Degree.

### California State University – Fullerton

**There are four concentrations within the Biological Science Major:**

"Cell & Developmental Biology", "Ecology & Evolutionary Biology", "Marine Biology" and "Molecular Biology & Biotechnology". Plant Biology [Effective Spring 2016].

BIOL	202	Molecular Biology/Genetics	4
CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
MATH	116	Calculus for Managerial, Biological, and Social Sciences	4
<i>or</i> MATH	170	Analytic Geometry and Calculus I	(4)
<i>and</i> MATH	190	Analytic Geometry and Calculus II	4

### California State University – Long Beach

#### GENERAL OPTION

CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
MATH	116*	Calculus for Managerial, Biological, and Social Sciences	4
<i>or</i> MATH	170	Analytic Geometry and Calculus I	(4)
<i>and</i> MATH	190	Analytic Geometry and Calculus II	4

#### OPTION IN BIOLOGY EDUCATION

BIOL	115	Marine Biology	3
CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
ESCI	110	Introduction to Earth Science	4
<i>or</i> GEOL	101	Physical Geology	(4)
MATH	116	Calculus for Managerial, Biological, and Social Sciences	4
<i>or</i> MATH	170	Analytic Geometry and Calculus I	(4)
MICR	200	Principles & Applications of Microbiology	5

#### OPTION IN MOLECULAR CELL BIOLOGY & PHYSIOLOGY

CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
MATH	116*	Calculus for Managerial, Biological, and Social Sciences	4
<i>or</i> MATH	170	Analytic Geometry and Calculus I	(4)
<i>and</i> MATH	190	Analytic Geometry and Calculus II	4

#### OPTION IN ORGANISMAL BIOLOGY

CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
MATH	116*	Calculus for Managerial, Biological, and Social Sciences	4
<i>or</i> MATH	170	Analytic Geometry and Calculus I	(4)
<i>and</i> MATH	190	Analytic Geometry and Calculus II	4

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\*After MATH 116 an additional math class must be completed at CSULB after transfer.

**NOTE:** PHYS 201 & PHYS 202 may substitute for PHYS 101 & PHYS 102 for any of the Biology options offered at CSULB.

### California State University – Los Angeles

No additional requirements beyond the Common Lower Division major preparation for California State University.

### COMMON LOWER DIVISION MAJOR PREPARATION FOR UNIVERSITY OF CALIFORNIA

BIOL	200	Principles of Biology	5
BIOL	201	Principles of Biology	5
CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
PHYS	201	Engineering Physics	4
PHYS	202	Engineering Physics	4

### ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

#### University of California – Irvine

**UCI offers a Biological Sciences B.S. degree and a Biology/Education B.S. degree.**

BIOL	202	Molecular Biology/Genetics	4
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
<i>or</i> MATH	112	Elementary Statistics	(4)
<i>or</i> Math	250	Linear Algebra and Differential Equations	(5)
<i>or</i> PSYC	210	Elementary Statistics	(4)

#### University of California – Los Angeles

BIOL	202	Molecular Biology/Genetics	4
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
MATH	220	Analytic Geometry and Calculus III	4
PHYS	203	Engineering Physics	4
PSYC	210	Elementary Statistics	4
ZOOL	120	Introduction to Animal Biology	4

#### University of California – Riverside

BOT	120	Introduction to Plant Science	4
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
PHYS	203	Engineering Physics	4
ZOOL	120	Introduction to Animal Biology	4

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## Transfer Preparation

The IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences. Transfer students are encouraged to follow the College of Natural and Agricultural Sciences breadth pattern as outlined on [www.assist.org](http://www.assist.org).

UCR offers a Biology B.A degree and a Biology B.S. degree. Students pursuing a B.A. degree in Biology will also need to complete the equivalent of 4<sup>th</sup> quarter proficiency (generally 3<sup>rd</sup> semester) in a language other than English, as part of the breadth requirements for this degree.

Students intending to meet lower division requirements for any school or division of the University of California should consult the catalog of that institution in addition to checking the ASSIST.ORG Articulation.

### **CAREER OPPORTUNITIES:**

The Bachelor's Degree programs with an emphasis in Biology are designed to qualify the student to enter graduate schools, to enter teaching at the secondary level, and are appropriate for some applied work in laboratories, federal employment, state civil service and the pharmaceutical industry.

**IMPORTANT NOTICE:** The requirements listed for major are subject to change without notice. It is the student's responsibility to check for the most recent information with a Cerritos College counselor or by consulting ASSIST at [www.assist.org](http://www.assist.org).

**NOTE:** Courses listed may require prerequisite coursework.

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# ASSIST

How to use **ASSIST** to find your major preparation for CSU/UC:

1. **Log on:** [www.assist.org](http://www.assist.org)
2. **Select an Institution:** select "Cerritos College" or other community college from pull-down menu
3. **Select:** "Type of Transfer Institution" such as "UC Los Angeles"
4. **Select a major from pull-down menu**  
Report will show the university courses on the left and comparable community college classes on the right.
5. **PRINT:**-print by clicking on gold "**PRINT THIS REPORT**" button on top. Then use the **ASSIST** screen menu on the top toolbar or click on the printer icon that will appear at the bottom of the page.

How to use **ASSIST** to explore the majors available at University of California and California State University campuses

- Click on "EXPLORE MAJORS"

How to use **ASSIST** to figure out whether courses from the community college are transferable to the CSU/UC.

- Select the community college of interest (Cerritos College)
- Select either CSU transferable courses or UC Transferable courses
- Select a department for the courses in question

\*USC Articulation available at:

[www.usc.edu/articulation](http://www.usc.edu/articulation) and **Select:** "TRANSFER PLANNING GUIDE."

## **IMPORTANT:**

*Students are advised to contact a Cerritos College counselor for more information & for details regarding other transfer agreements & options not available on ASSIST. Students can stop by the counseling desk to make an appointment or call (562) 860-2451 ext. 2231.*