



Cerritos College

MICROBIOLOGY

Transfer Preparation

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

			UNITS
BIOL	200	Principles of Biology	5
BIOL	201	Principles of Biology	5
CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills (Option within the Biology B.S. major)

MATH	112	Elementary Statistics	4
MATH	170	Analytic Geometry and Calculus I	4
or MATH	116	Calculus for Managerial, Biological and Social Sciences	(4)
PHYS	101	General Physics	4
and PHYS	102	General Physics	4
or PHYS	201	Engineering Physics	(4)
and PHYS	202	Engineering Physics	4
and PHYS	203	Engineering Physics	4
BIOL	202	Molecular Biology/Genetics	4

California State University – Long Beach

CHEM	211	Organic Chemistry	5
& CHEM	212	Organic Chemistry	5
MATH	116	Calculus for Managerial, Biological and Social Sciences	4
or MATH	170	Analytic Geometry and Calculus I	(4)
PHYS	101	General Physics	4
and PHYS	102	General Physics	4
or PHYS	201	Engineering Physics	(4)
and PHYS	202	Engineering Physics	4

NOTE: Impacted major: As a result, major will have major specific admission requirements in the form of major preparation coursework and GPA requirements. Meet with a counselor for more information. The CSU GE requirements in Written Communication, Oral Communication, Critical Thinking and Mathematics/Quantitative Reasoning must be completed with a grade of "C" or better by the end of the prior Spring term for Fall admission or by the end of the prior Summer term for Spring admission.

California State University – Los Angeles

PHYS	101	General Physics	4
PHYS	102	General Physics	4
MATH	170	Analytical Geometry and Calculus I	4
CHEM	211	Organic Chemistry	5

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This CSULA major has "major-specific admission requirements" which are focused on transfer student preparation that predicts success in the major and promotes timely degree completion. For Fall term admission, coursework must be completed no later than the prior Spring term; for Spring, no later than the prior Summer term. <http://www.calstatela.edu/admissions/major-specific-criteria>

California State Polytechnic University – Pomona (Option within Biology major)

ENGL	100	Freshman Composition	4
ENGL	102	Freshman Composition and Literature	3
<i>or</i> ENGL	103	Critical and Argumentative Writing	(3)
MATH	116	Calculus for Managerial, Biological, and Social Sciences	4
MICR	200	Principles and Applications of Microbiology	5
PHYS	101	General Physics	4
PHYS	102	General Physics	4
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)

NOTE: Impacted major: Admission of upper division transfer students will be based on overall GPA in transferable courses. Applicants will only be accepted for Fall quarter. Eligible California veterans receive admission priority.

University of California-Irvine (Microbiology and Immunology B.S.)

BIOL	202	Molecular Biology/Genetics	4
CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
<i>or</i> MATH	250	Linear Algebra and Differential Equations	5
<i>or</i> MATH	112	Elementary Statistics	(4)
<i>or</i> PSYC	210	Elementary Statistics	(4)
PHYS	201	Engineering Physics	4
PHYS	202	Engineering Physics	4

NOTE: The major in Microbiology and Immunology is open only to Upper-Division Biological Sciences majors who meet specified course and grade requirements as listed at www.changeofmajor.uci.edu. Transfer students interested in this major should apply as Biological Sciences majors. All applicants must have a cumulative GPA of 3.0 or higher. Articulation of general chemistry is based on the completion of the entire year.

****Students who are interested in attending health professional school are recommended to take one semester of Calculus and one semester of Statistics.**

University of California – Los Angeles (Microbiology, Immunology and Molecular Genetics)

ZOOL	120	Introduction to Animal Biology	4
<i>or</i> BIOL	120	General Biology	4
CHEM	211	Organic Chemistry	5
CHEM	212	Organic Chemistry	5
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4

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MATH	225	Analytic Geometry and Calculus III	4
PSYC	210	Elementary Statistics	4
PHYS	201	Engineering Physics	4
PHYS	202	Engineering Physics	4
PHYS	203	Engineering Physics	4

NOTE: At minimum complete one year of biology with laboratory, one year of general chemistry with laboratory, one year of calculus and one semester of organic chemistry with laboratory. Completion of a second semester of organic chemistry or one year of calculus-based physics is strongly recommended. For more information visit www.mimg.ucla.edu and www.admissions.ucla.edu.

All courses must be taken for a letter grade. This major is highly selective, a significant number of preparatory courses should be completed prior to transfer.

CAREER OPPORTUNITIES:

Bachelor's degree programs with an emphasis in Microbiology are designed to qualify the student for graduate study in the field. Careers include employment in various types of Federal employment; State Civil Service work such as Public Health Microbiologist; industrial microbiological work in divergent fields such as the pharmaceutical industry, brewing, industrial fermentation's, and the dairy industry; work as a hospital microbiologist or research technician positions in university research projects.

See Intersegmental General Education Transfer Curriculum list.

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.

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
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 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) 467-5231.