



Cerritos College

BIOLOGY TRANSFER PROGRAM

Program of Study

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
MATH 112	Elementary Statistics	4
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
MICRO 200	Principles & Applications of Microbiology	5

RECOMMENDED GENERAL EDUCATION COURSES

ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	3
HED 100	Contemporary Health Problems	3
or PSYC 101	General Introductory Psychology	3
or PSYC 150	Personal and Social Adjustment	3
or PSYC 241	Introduction to Psychobiology	3

See counselor for other options.

California State University – Dominguez Hills

MATH 112	Elementary Statistics (Required for B.A. degree and B.S. degree)	4
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NOTE: Math 170 or Math 116 also required for B.S. degree only.

California State University – Fullerton

There are four concentrations within the Biological Science Major:
"Biodiversity, Ecology & Conservation Biology", "Cell & Developmental Biology", "Marine
Biology" and "Molecular Biology & Biotechnology".

BIOL 202	Molecular Biology/Genetics	4
CHEM 211	Organic Chemistry	5

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CHEM 212	Organic Chemistry	5
MATH 170	Analytic Geometry and Calculus I	4
or MATH 116	Calculus for Managerial, Biological, and Social Sciences	(4)

California State University – Long Beach

GENERAL OPTION

MATH 116*	Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

OPTION IN BIOLOGY EDUCATION

ASTR 101	Elementary Astronomy	3
BIOL115	Marine Biology	3
GEOL 101	Physical Geology	4
or ESCI 110	Introduction to Earth Science	(4)
MATH 170	Analytic Geometry and Calculus I	4
or MATH 116	Calculus for Managerial, Biological, and Social Sciences	(4)
MICR 200	Principles & Application of Microbiology	5

OPTION IN BOTANY

MATH 116*	Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

OPTION IN CELL & MOLECULAR BIOLOGY

MICR 200	Principles & Application of Microbiology	5
MATH 116*	Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

OPTION IN ECOLOGY

GEOL 101	Physical Geology	4
or ESCI 110	Introduction to Earth Science	(4)
MATH 116*	Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

OPTION IN PHYSIOLOGY

MATH 116*	Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

OPTION IN ZOOLOGY

GEOL 101	Physical Geology	4
or ESCI 110	Introduction to Earth Science	(4)
or MICR 200	Principles & Applications of Microbiology	(5)
MATH 116*	Calculus for Managerial, Biological, and Social Sciences	(4)

or MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

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

California State University – Los Angeles

CHEM 205	Quantitative Analysis Chemistry	4
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
MATH 170	Analytic Geometry and Calculus I	4

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for its writing proficiency requirement.

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

BIOL202	Molecular Biology/Genetics	4
MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4
or MATH 170	Analytic Geometry and Calculus I	(4)
and MATH 112	Elementary Statistics	(4)
or PSYC 210	Elementary Statistics	(4)
PHYS 203*	Engineering Physics	4

*(PHYS 203 may substitute for PHYS 202)

University of California – Los Angeles

BIOL 202	Molecular Biology/Genetics	4
MATH 112*	Elementary Statistics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 203	Engineering Physics	4

*This statistic course will no longer be acceptable for students transferring to UCLA in Fall 2008.

University of California – Riverside

MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 203	Engineering Physics	4

UCR offers a Biology B.A., Biology B.S. and a Biological Sciences B.S. The Biological Sciences major differs from the Biology Major in the structure of the upper division course work. In the Biological Sciences major, students choose one of eight upper division tracks of specialized coursework. Those tracks are: Biology; Cell/Molecular and Developmental Biology;

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Conservation Biology; Environmental Toxicology; Evolution and Ecology; Microbiology; Plant Biology; and Medical Biology.

For the Conservation Biology Track also complete GEOG 101 & GEOG 101L.

For the Biology Track take two courses from: CIS 180 or CIS 280 or CIS 292 or CIS 230.

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.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the 60 units to include (1) The CSU or UC common lower division preparation, (2) MATH 116 OR 170 (3) the Associate in Arts general education degree requirements.

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.