



Cerritos College

GEOLOGY

Transfer Preparation

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

			UNITS
GEOL	101	Physical Geology	4

ADDITIONAL LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills (B.S.-Earth Science)

GEOL	102	Physical Geology Lecture	3
or GEOL	101	Physical Geology	(4)
or GEOG	101	Physical Geography	(3)
GEOL	102L	Physical Geology Laboratory	1
or GEOL	101	Physical Geology	(4)
GEOL	201	Earth History	4
MATH	112	Elementary Statistics	4
and MATH	116	Calculus for Managerial, Biological and Social Sciences	4
or MATH	170	Analytical Geometry and Calculus I	(4)
MATH	190	Analytical Geometry and Calculus II	4

Select a chemistry, physics or biology sequence:

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

Articulation is approved as a sequence only.

California State University – Fullerton (Geological Science)

BIOL	120	Introduction to Biological Science	4
or BIOL	200	Principles of Biology	(5)
CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
GEOL	101	Physical Geology	4
or GEOL	102	Physical Geology Lecture	(3)
or ESCI	106	Weather and Climate	(3)
GEOG	102L	Physical Geography Laboratory	1
GEOL	201	Earth History	4
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
or MATH	116	Calculus for Managerial, Biological and Social Sciences	(4)
PHYS	201	Engineering Physics	4

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and PHYS	202	Engineering Physics	4
or PHYS	101	General Physics	(4)
and PHYS	102	General Physics	(4)

One additional course (with approval of CSUF advisor):

Lower Division Selection

A&P	120	Introduction to Human Anatomy and Physiology	4
BIOL	201	Principles of Biology	5
MATH	220	Analytical Geometry and Calculus III	4
MATH	250	Linear Algebra and Differential Equations	5
PHYS	203	Engineering Physics	4

California State University – Long Beach

CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
GEOL	101	Physical Geology	4
or ESCI	110	Introduction to Earth Science	(4)
GEOL	201	Earth History	4
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
PHYS	201	Engineering Physics	4
PHYS	202	Engineering Physics	4

Geology majors must receive a grade of "C" or better in all courses required for the major. Transfer students should attempt to fulfill, prior to transferring, the appropriate lower division curricular requirements as outlined above. In particular students should take prior to transferring the equivalent of GEOL 101 or ESCI 110 and at least 3 of the following 4: CHEM 111, CHEM 112, MATH 170 and MATH 190.

California State University – Los Angeles

ENGL	103	Critical and Argumentative Writing	3
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Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

Lower Division Required Foundation Courses (35 units)

CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
MATH	170	Analytic Geometry and Calculus I	4
PHYS	101	General Physics	4
and PHYS	102	General Physics	4

Lower Division Required Courses (20 units)

GEOG	101	Physical Geography	3
GEOG	102	Natural and Cultural Geography	3
GEOL	101	Physical Geology	4
GEOL	201	Earth History	4

Environmental Geosciences Option (26 or 28 units)

BIOL	200	Principles of Biology	5
BIOL	201	Principles of Biology	5
CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
MATH	170	Analytic Geometry and Calculus I	4

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Lower Division Required Courses (24 units)

GEOL	101	Physical Geology	4
GEOG	102	Natural and Cultural Geography	3
GEOG	101	Physical Geography	3
GEOL	201	Earth History	4

California State University Polytechnic – Pomona

Three emphases: Geology, Geophysics/Earth Exploration, and Environmental Resources.

BIOL	120	Introduction to Biological Science	4
or BIOL	200	Principles of Biology	(5)
CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
PHYS	101	General Physics	4
PHYS	102	General Physics	4
or PHYS	201	Engineering Physics	(4)
PHYS	202	Engineering Physics	(4)

Additional Courses for emphasis:

Geophysics/Earth Exploration emphasis:

CIS	180	Programming in C/C++	(3)
or CIS	183	JAVA Programming	(3)
ESCI	104	Oceanography	3

Additional Courses for emphasis:

Environmental Resource emphasis:

GEOL	101	Physical Geology	4
GEOL	201	Earth History	4

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CHEM	111	General Chemistry	5
CHEM	112	General Chemistry	5
MATH	170	Analytic Geometry and Calculus I	4
MATH	190	Analytic Geometry and Calculus II	4
PHYS	201	Engineering Physics	4
PHYS	202	Engineering Physics	4

University of California – Los Angeles

Geology:

BIOL	200	Principles of Biology	5
MATH	220	Analytic Geometry and Calculus III	4

Additional Courses:

Geology/Engineering Geology:

MATH	220	Analytic Geometry and Calculus III	4
MATH	250	Linear Algebra and Differential Equations	5
PHYS	203	Engineering Physics	4

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Geology/Paleobiology:

Discontinued Spring 2015

Geology/GeoPhysics:

MATH	220	Analytic Geometry and Calculus III	4
MATH	250	Linear Algebra and Differential Equations	5
PHYS	203	Engineering Physics	4

University of California – Riverside

Requirements for General Geology, Geobiology, and Geophysics, Global Climate Change Options:

BIOL	201	Principles of Biology	5
GEOL	101	Physical Geology	4
GEOL	201	Earth History	4
GEOG	101	Physical Geography	3
GEOG	101L	Physical Geography Laboratory	1
PHYS	203	Engineering Physics	4

Additional Courses for options:

Geobiology option:

BIOL	200	Principles of Biology	5
<i>or</i> BOT	120	Introduction to Plant Science	(4)
<i>and</i> ZOOL	120	Introduction to Animal Biology	(4)
BOT	120	Introduction to Plant Science	4
ZOOL	120	Introduction to Animal Biology	4

Geophysics option:

MATH	250	Linear Algebra and Differential Equations	5
PHYS	203	Engineering Physics	4

Global Climate Change option:

BIOL	200	Principles of Biology	5
<i>or</i> BOT	120	Introduction to Plant Science	(4)
<i>and</i> ZOOL	120	Introduction to Animal Biology	(4)
BOT	120	Introduction to Plant Science	4
ESCI	104	Oceanography	3
ZOOL	120	Introduction to Animal Biology	4

Transfer students must complete the following in order to meet selection criteria for this major with grades of "C" or better: MATH 170 and MATH 190 and at least one sequence from CHEM 111 and 112, PHYS 201, 202, and 203, or BIOL 200 and 201.

CAREER OPPORTUNITIES:

After transfer to a four-year college or university and completion of the Bachelor's Degree program, graduates qualify for graduate study and for professional careers in government or industry and teaching.

See State University General Education 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) 860-2451 ext. 2231.