



## CURRICULUM GUIDE 2008-2009

### GEOLOGY

#### AS Degree: Transfer Focus

The Associate of Science Transfer Degree in Geology offered by Ohlone College is designed to prepare students for studying Geology at most universities. The core courses required in the AS Degree in Geology will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in geology, physics, chemistry, and mathematics. Furthermore, the theoretical knowledge and laboratory skills acquired by students in this program will also enhance their success with obtaining entry-level jobs that require two years of college-level science and math.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone's AS degree program in Geology meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the General Education plan that best prepares them for future transfer.

#### Requirements for AS Degree:

- a) Complete the Major Field courses with a 2.0 grade point average.
- b) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog.
- c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.
- e) Complete at least 50% of the Major Field courses at Ohlone College.
- f) Complete GEOL-101, GEOL-102/102L, and GEOL-103/103L at Ohlone College.

#### MAJOR FIELD

CHEM-101A	General Chemistry	5
CHEM-101B	General Chemistry	5
GEOL-101	Introduction to Geology	4
MATH-101A	Calculus with Analytic Geometry	5
MATH-101B	Calculus with Analytic Geometry	5
MATH-101C	Calculus with Analytic Geometry	5
PHYS-140	Mechanics	4

Select one of the following course combinations:	4
GEOL-102 Introduction to Oceanography AND	(3)
GEOL-102L Oceanography Laboratory OR	(1)
GEOL-103 Paleontology and Dinosaurs AND	(3)
GEOL-103L Paleontology Laboratory	(1)

Select one of the following Physics courses:	4
PHYS-141 Electricity and Magnetism OR	(4)
PHYS-142 Optics, Heat, and Modern Physics	<u>(4)</u>
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### **RECOMMENDED COURSES**

The following courses are recommended because they are required in the lower division of some baccalaureate-granting universities:

BIOL-101A	Principles of Biology–Molecular and Cellular	(5)
BIOL-101B	Principles of Biology–Organisms and Systems	(5)
MATH-103	Introduction to Linear Algebra	(3)
MATH-104	Differential Equations	(5)
MATH-159	Elements of Statistics and Probability	(5)