

**Geoscience Department    B. S. in Geology/Geology Track    Effective Fall 2011**

The B. S. degree in Geology is a dual-purpose program. It is not only designed to train students to compete for positions as professional geologists in the job market, but it is also designed to provide necessary allied science and math background to enable a good student to qualify for admission to a geology graduate program.

**SUMMARY STATEMENT**

Liberal Studies Requirements	50cr
Major Requirements	59cr
Free Electives	11cr
<b>TOTAL</b>	<b>120cr</b>

**LIBERAL STUDIES REQUIREMENTS**

**50 credits total**

**Learning Skills: English Composition: Two Courses**

**7cr**

_____ ENGL 101 College Writing	4cr
_____ ENGL 202 Research Writing	3cr

**Learning Skills: Mathematics (specified by the Geoscience Dept.)**

**4cr**

_____ MATH 121 Calculus I for Natural and Social Sciences	4cr
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**Humanities: Three Courses**

**9cr**

_____ HIST 195 The Modern Era	3cr
_____ ENGL 121 Humanities Literature	3cr
_____ PHIL 101, 120, 221, 222, 223; RLST 100, 110, 250, 290	3cr

**Fine Arts: One Course from List**

**3cr**

_____ ARHI 101, DANC 102, MUHI 101, MUHI 102, THTR 101	3cr
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**Natural Science (specified by the Geoscience Dept.)**

**8cr**

_____ CHEM 111 or CHEM 113	4cr
_____ CHEM 112 or CHEM 114	4cr

**Social Science: Three Courses from List\***

**9cr**

_____ Course 1: _____	3cr
_____ Course 2: _____	3cr
_____ Course 3: _____ (non-Western)	3cr

\*See Undergraduate Catalog for list; no course prefix may be used more than once

**Health and Wellness: One Course**

**3cr**

_____ HPED 143, FDNT 143, NURS 143	3cr
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**Liberal Studies Electives (specified by the Geoscience Dept.)**

**4cr**

_____ MATH 122	4cr
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**Non-Western Cultures: One Course from List**

**0cr\***

\_\_\_\_\_ \*This course will most likely also be a Social Science course

**Synthesis: One Course**

**3cr**

_____ LBST 499	3cr
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**Writing Across the Curriculum: Two "W" Courses**

**0cr\***

\*These courses will also count toward some other requirement; one course must be in the major

\_\_\_\_\_ Course: \_\_\_\_\_

\_\_\_\_\_ Course: \_\_\_\_\_

**MAJOR REQUIREMENTS: 59 credits total**

**Required Courses:**

_____	GEOS 201 Foundations of Geology	4cr
_____	GEOS 202 Quantitative Methods in the Geosciences	2cr
_____	GEOS 203 Surficial Processes	4cr
_____	GEOS 301 Mineralogy and Petrology	4cr
_____	GEOS 302 Structural Geology	4cr
_____	One of the following: GEOS 303, 401-402, 403-404, 405-406, 407-408 (1)	4cr
_____	GEOS 470 Research Methods in the Geosciences	2cr
_____	GEOS 480 Geoscience Seminar	2cr
_____	PHYS 111 Physics I Lecture	3cr
_____	PHYS 121 Physics I Lab	1cr
_____	PHYS 112 Physics II Lecture	3cr
_____	PHYS 122 Physics II Lab	1cr

**Controlled Electives: 25cr**

Select 25 credits from the following list (2):

One 100-level or 200-level GEOS course (must have been taken before GEOS major declared)

Any 300-level GEOS course

Any 400-level GEOS course

Foreign Language Intermediate-Level

BIOL 111, 112

CHEM 231, 232, 322, 323, 341

GEOG 316, 415, 419

MATH 216 or 217, 241

PHYS 342

COSC 110, 210, 250, 310, 362

<u>Course</u>	<u># Credits</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
<b>Total Controlled Electives:</b>	_____

**FREE ELECTIVES:**

**11cr**

<u>Course</u>	<u># Credits</u>
_____	_____
_____	_____
_____	_____
_____	_____
<b>Total Free Electives:</b>	_____

(1) Up to 4cr of a summer field camp, internship, or independent study, all of which must be approved by the department, may substitute for GEOS 303 Field Geology or a Geoscience Field Workshop.

(2) Only one Geoscience Field Workshop (including prerequisite 1cr Seminar) may be applied toward controlled electives. Credits from up to two non-GEOS courses may be applied toward controlled electives.