

The B.S. in Geology/Energy Resources Track is designed for students who wish to pursue careers in the energy sector. As the world's energy demands continue to grow, nations face the challenge of maintaining reliable energy supplies. The Energy Resources Track will prepare students for direct entry into the energy industry with a focus on the discovery and development of energy resources and geophysical exploration techniques.

SUMMARY STATEMENT

Liberal Studies Requirements	46cr
Major Requirements	58cr
Free Electives	16cr
TOTAL	120cr

LIBERAL STUDIES REQUIREMENTS

46 credits total

Learning Skills: English Composition - Two Courses

6cr

_____ ENGL 101 College Writing

3cr

_____ ENGL 202 Research Writing

3cr

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

4cr

_____ MATH 121 Calculus I for Natural and Social Sciences

4cr

Learning Skills: Dimensions of Wellness - One Course

3cr

_____ 143 class with prefix in HPED, ECON, FDNT, NURS, FIN, FCSC

3cr

Learning Skills: Global and Multicultural Awareness - One Course

0cr*

_____ *This course will most likely also be a Social Science course

Knowledge Area: Humanities - Three Courses

9cr

_____ HIST 196, 197, or 198

3cr

_____ ENGL 121 or FNLG 121

3cr

_____ PHIL 100, 101, 122, 223, 240; RLST 100, 110, 250, 290

3cr

Knowledge Area: Fine Arts - One Course from List

3cr

_____ ARHI 101, DANC 102, FIAR 101, MUHI 101,

3cr

MUHI 102, THTR 101

Knowledge Area: Natural Science (specified by the Geoscience Dept.)

8cr

_____ CHEM 111 or CHEM 113

4cr

_____ CHEM 112 or CHEM 114

4cr

Knowledge Area: Social Science - Three Courses from List*

9cr

_____ Course 1: _____

3cr

_____ Course 2: _____

3cr

_____ Course 3: _____

3cr

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

Liberal Studies Electives (specified by the Geoscience Dept.)

4cr

_____ MATH 122 (Calculus II for Natural and Social Sciences)

4cr

Writing Across the Curriculum: Two "W" Courses

0cr*

*These courses usually also fulfill other requirements. At least one must be in the major.

_____ Writing Course #1: _____

_____ Writing Course #2: _____

MAJOR REQUIREMENTS:**58 credits total****Required Courses:**

_____	GEOS 201 Foundations of Geology	4cr
_____	GEOS 202 Quantitative Methods in the Geosciences	2cr
_____	GEOS 203 Surficial Processes	4cr
_____	GEOS 204 Historical Geology	4cr
_____	GEOS 301 Mineralogy	4cr
_____	<i>One of the following field experiences:</i>	
_____	GEOS 303, 401-402, 403-404, 405-406, 407-408, 490 (1)	4cr
_____	GEOS 470 Research Methods in the Geosciences	2cr
_____	GEOS 480 Geoscience Seminar	2cr

Energy Resources Track*Two of the following:* 8 cr

_____	GEOS 302 Structural Geology
_____	GEOS 323 Geophysics
_____	GEOS 324 Geology of Oil & Gas

Two of the following: 8 cr

_____	GEOS 352 Sedimentation & Stratigraphy
_____	GEOS 353 Paleontology
_____	GEOS 355 Sedimentary Petrology
_____	GEOS 362 Plate Tectonics

Ancillary Sciences:*Two of the following:* 6 cr

_____	PHYS 111 Physics I or PHYS 131 Physics I with Calculus
_____	PHYS 112 Physics II or 132 Physics II with Calculus
_____	MATH 216 Statistics for Natural Science

Controlled Electives:

10 cr

Ten credits selected from any combination of the following:

One 100-level GEOS course ⁽³⁾	CHEM 231, 232, 325, 326, 341
Any 300-level GEOS course(s)	GEOG 314, 335, 341, 343, 415, 419
Any 400-level GEOS course(s)	MATH 216 or 217 ⁽⁴⁾ , 241
Foreign Language Intermediate Level	PHYS 121 or 141, 122 or 142, 342
BIOL 201, 202	COSC 110, 210, 250, 310, 362

(1) Up to 4cr of a summer field camp, internship, field research study, 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) Any course not applied to the geology track may count as a controlled elective if taken in addition to track requirements. Only one Geoscience Field Workshop (including prerequisite 1cr Seminar) may be applied toward controlled electives. Six credits of foreign language may count toward controlled electives provided intermediate level is successfully obtained.

(3) When taken before declaring the major or when specifically recommended during freshmen orientation/transfer advising for students who must take remedial math courses before enrolling in GEOS 201 and 202.

(4) Cannot be counted as a controlled elective if MATH 216 is applied toward ancillary science requirements.

Geoscience Department B. S. in Geology/Energy Resources Track Effective Fall 2015

Controlled Electives		Free Electives (16cr)	
	10cr		16cr