

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. Conventional oil, coal, and natural gas continue as mainstays of the energy industry, but renewable and/or carbon-neutral energy sources are gaining attention in response to growing concerns about climate change and finite reserves of fossil fuels. 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	59cr
Free Electives	15cr
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

- _____ HPED 143, FDNT 143, NURS 143 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 Humanities Literature 3cr
- _____ PHIL 101, 120, 221, 222, 223; RLST 100, 110, 250, 290 3cr

Knowledge Area: Fine Arts - One Course from List

3cr

- _____ ARHI 101, DANC 102, MUHI 101, MUHI 102, THTR 101 3cr

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

8cr

- _____ PHYS 111-121 4cr
- _____ CHEM 111 or CHEM 113 4cr

Knowledge Area: Social Science - Three Courses from List*

9cr

- _____ Course 1: ECON121 – Principles of Macroeconomics 3cr
- _____ Course 2: _____ 3cr
- _____ Course 3: _____ (G. & M.A.) 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 will also count toward some other requirement; one course must be in the major

- _____ Writing Course #1: _____
- _____ Writing Course #2: _____

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 323 Geophysics	4cr
_____	GEOS 324 Geology of Oil and Gas	4cr
_____	GEOS 352 Sedimentation and Stratigraphy	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 112-122 Physics I Lecture and Lab	4cr
	or _____ CHEM 112 General Chemistry II (or CHEM114)	

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 or 400-level GEOS course

Foreign Language Intermediate-level

CHEM 112 (if not taken above), CHEM 231, 232, 322, 323, 341

ECON 122, 331, 361

GEOG 415, 419

MATH 216 or 217, 241

PHYS 112-122 (if not taken above), 342

COSC 110, 210, 250, 310, 362

Controlled Electives (25 cr)		Free Electives (15 cr)	
Course	# Credits	Course	# Credits
Total Controlled Electives:	_____	Total Free Electives:	_____

(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 or a Geoscience Field Workshop.

(2) Only one Geoscience Field Workshop (including prerequisite 1cr Seminar) may be applied toward controlled electives. Up to 12cr from non-GEOS courses may be applied toward controlled electives. 6cr of foreign language