

B.S. GEOLOGY: ENERGY RESILIENCY

**Ask About Our
Available
Scholarships**

SECURING ENERGY INDEPENDENCE

RECOMMENDED 4-YEAR PLAN

Building off a 100-year tradition of training leaders, our Geology degree is among the top-ranked programs for quality and value in the nation. Geology is critical for traditional energy sectors of oil, natural gas, hydro, and nuclear. The expanding energy needs of the United States requires a workforce who understand these different sources of energy and how to acquire them, including wind, solar, geothermal, and batteries. The Geology Energy Resiliency option introduces students to where and how these resources can be obtained and how we can approach their use in a sustainable and environmentally friendly way. Our students work directly with world-class faculty in the laboratory and unique outdoor settings throughout their college careers. Most of our undergraduates participate in research experiences and many join faculty on travel to exciting destinations like Iceland and Hawaii. Our geology courses emphasize a “hands-on” approach, bridging learning opportunities in the classroom with direct experience in the field. Careers include working for the petroleum and mining industries, environmental consulting, and state and federal land management agencies.

FRESHMAN		FALL
COURSE		CREDITS
GEOL 101/101L OR GEOL 111/111L (CHEM 050, 101, MATH 143, 160, or 170; or sufficient test score)	<i>Science</i>	4
ENGL 101* - Intro to College Writing (sufficient test score)	<i>Writ Comm</i>	3
MATH 143 - College Algebra		3
MATH 144 - Analytic Trigonometry		1
GEOG 165 - Human Geography or GEOG 200 World Cultures and Globalization		3
		TOTAL 14

FRESHMAN		SPRING
COURSE		CREDITS
ENGL 102* - College Writing & Rhetoric (ENGL 101)	<i>Writ Comm</i>	3
CHEM 111/111L - General Chemistry		4
GEOL 102/102L - Historical Geology and Lab		4
MATH 170 - Calculus		4
		TOTAL 15

SOPHOMORE		FALL
COURSE		CREDITS
GEOL 212 - Dinosaurs and Prehistoric Life		4
MSE 201 - Elements of Materials Science		3
PHYS 111/111L - General Physics I OR PHYS 211/211L		4
GEOL 318 - Economic Geology		3
		TOTAL 14

SOPHOMORE		SPRING/ SUMMER
COURSE		CREDITS
GEOL 249 - Mineralogy and Optical Mineralogy		4
GEOL 345 - Structural Geology		4
GEOG 385 - Foundations of GIS		3
General Education Requirement		3
Summer: GEOL 302 - Field Geology Methods		3
		TOTAL 17

This academic plan is intended as a guideline only and does not replace academic advising. 120 credits minimum are required for a B.S. in Geology. Minimum of 36 upper-division credits required to graduate. See course catalog and department website for complete degree requirements and additional information.

B.S. GEOLOGY ENERGY RESILIENCY OPTION

RECOMMENDED 4-YEAR PLAN

JUNIOR	FALL
COURSE	CREDITS
GEOL 324 - Principles of Stratigraphy and Sedimentation	4
GEOL 326 - Igenous and Metamorphic Petrology	4
GEOL 462 - Petroleum Systems and Stratigraphic Concepts	3
GEOG 313 - Global Climate Change	3
TOTAL 14	

JUNIOR	SPRING/ SUMMER
COURSE	CREDITS
ENGL 318 - Science Writing	3
MSE 438 - Fundamentals of Nuclear Materials	3
General Education Requirements	9
Summer: GEOL 490 - Geology Field Camp or GEOL 489 Virtual Field Camp	3
TOTAL 18	

SENIOR	FALL
COURSE	CREDITS
GEOL 471 - Ore Deposits and Exploration	3
GEOG 435 - Climate Change Mitigation	3
ENVS 485 - Energy Efficiency and Conservation	3
GEOG 350 - Sustainability of Global Development	3
General Education Requirement	3
TOTAL 15	

SENIOR	SPRING
COURSE	CREDITS
GEOL 422 - Principles of Geophysics	4
ENVS 484 - History of Energy	3
GEOG 488 - Geography of Energy Systems	3
ENVS 415 - Environmental Lifecycle Assessment	3
TOTAL 13	



Photo Credit

READY TO GET STARTED?

For More Information: earth-sciencerocks@uidaho.edu

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