

GEOLOGY: SUSTAINABLE MINING & EARTH RESOURCE MANAGEMENT

Ask About Our
Available
Scholarships

BUILD A ROCK-SOLID FUTURE

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. The use of mining products is seen all around us. Our roads, yards, driveways, and buildings all rely on minerals and modern green industries rely on mining to provide critical minerals for rechargeable batteries and electric vehicles. The United States recognizes 50 critical minerals that are essential to our nation and many of them are found in Idaho. To meet this need, the **Geology Sustainable Mining and Earth Resources Management** option introduces students to Modern Mining Methods. We are directly working with regional employers to show students how mining is planned, implemented, and how we can restore and maintain the surrounding natural landscapes. 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.

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 and Math 144 - Analytic Trigonometry		4
General Education Requirement		2
GEOG 165 - Human Geography or GEOG 200 World Cultures and Globalization		3
		TOTAL 16

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 324 - Principles of Stratigraphy and Sedimentation		4
General Education Requirement		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
CE 105 - Civil Engineering Drafting		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 SUSTAINABLE MINING & EARTH RESOURCE MANAGEMENT OPTION

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JUNIOR		FALL
COURSE		CREDITS
GEOL 326 - Igenous and Metamorphic Petrology		4
GEOL 361 - Geology and the Environment		3
GEOL 309 - Ground Water Hydrology		3
GEOL 462 - Petroleum Systems and Stratigraphic Concepts		3
CE 211 - Engineering Surveying		3
		TOTAL 16

JUNIOR		SPRING/ SUMMER
COURSE		CREDITS
ENGL 318 - Science Writing		3
FOR 207 - Properties of Artificial Growth Media		1
General Education Requirements		6
GEOL 498 - Senior Thesis or GEOL 400 Seminar		2
Summer: GEOL 490 - Geology Field Camp or GEOL 489 Virtual Field Camp		3
		TOTAL 15

SENIOR		FALL
COURSE		CREDITS
GEOL 471 - Ore Deposits and Exploration and GEOL 310 - Geological Core Logging		4
HYDR 412 - Environmental Hydrogeology		3
REM 280 - Introduction to Wildland Restoration		2
ENVS 479 - Introduction to Environmental Regulations		3
GEOE 465 - Excavation and Materials Handling		3
		TOTAL 15

SENIOR		SPRING
COURSE		CREDITS
GEOL 428 - Geostatistics		3
GEOL 422 - Principles of Geophysics		4
General Education Requirements		3
GEOG 350 - Sustainability of Global Development		3
GEOL 474 - Stable Isotopes and the Environment		3
		TOTAL 16



READY TO GET STARTED?



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