B.S. in Geosciences

Degree-Specific Requirements*: Chemistry 1411: General Chemistry I Chemistry 1412: General Chemistry II Choose 2 of the following (or more advanced Math 1314: Pre Calculus Algebra Math 1316: Plane Trigonometry Math 1410: Elementary Functions Math 1420: Calculus I Physics 1301: General Phy-Mechanics & He Physics 1101: General Physics Lab I Physics 1302: General Phy-Sound, Lght, Ele Physics 1102: General Physics Lab II **Major Core:** Choose 1 of the following 2: Geology 1403: Physical Geology OR Geology 1405: Geologic & Environmental Geology 1404: Historical Geology Geology 3301: Field Methods Geology 3404: Mineralogy Geology 3405: Petrology Geology 4304: Geochemistry Geology 4400: Stratigraphy & Sedimentation Geology 4402: Structural Geology Choose 1 of the following 2: Geology 4320: Petroleum Geology OR Geology 4426: Hydrogeology Select 15 cr from the following advanced Geology 3326: Environmental Geology Geology 3330: Oceanography Geology 3415: Paleontology of Invertebrates Geology 4312: Economic Geology Geology 4320: Petroleum Geology Geology 4331: Geology of North America Geology 4337: Plate Tectonics Geology 4426: Hydrogeology Geography 4330: Hydrology & Water Resource Geography 4432: Geomorphology This track/concentration is designed for students that to take or complete Field Camp (Geol 4360, 4361) and I, Calculus II, or Math 3379 in the Geology major.

*Both the Geoscience and Geology B.S. degrees require an additional minor in order to complete state-mandated credit hour requirements; core curriculum not included in concentration requirements.

Geology Courses and Degree Requirements (2022-23)

B.S. in Geology

d): eat lec, & Mag	Degree-Specific Requirements Chemistry 1411: General Chemistr Chemistry 1412: General Chemistr Math 1420: Calculus I Choose 1 of the following 2: Math 1430: Calculus II OR Math 3379: Statistical Methods i Physics 1301: General Phy- Mecha Physics 1101: General Physics Lat Physics 1302: General Phy- Sound
	Physics 1102: General Physics Lab Major Core: <i>Choose 1 of the following 2:</i> Geology 1403: Physical Geology
Hazards	Geology 1405: Geologic & Envir Geology 1404: Historical Geology Geology 3301: Field Methods Geology 3404: Mineralogy Geology 3405: Petrology Geology 4304: Geochemistry
1	Geology 4400: Stratigraphy & Sed Geology 4402: Structural Geology <i>Choose 1 of the following 2:</i> Geology 4320: Petroleum Geolo Geology 4426: Hydrogeology
d electives:	Geology 4360: Field Geology Geology 4361: Field Geology
	 Select 10 cr from the following Geology 3326: Environmental Geo Geology 3330: Oceanography Geology 3415: Paleontology of Inv Geology 4312: Economic Geology Geology 4320: Petroleum Geology
ces are not able d/or Calculus	Geology 4331: Geology of North And Geology 4337: Plate Tectonics Geology 4426: Hydrogeology Geography 4330: Hydrology & Wat Geography 4432: Geomorphology

ents*: mistry I mistry II

ods in Practice lechanics & Heat s Lab I ound, Lght, Elec, & Mag s Lab II

ology OR Environmental Hazards logy

Sedimentation logy

Geology OR

ing advanced electives: Geology

Invertebrates logy logy th America

Water Resources

Suggested Course Sequence

Choose 1 of the following 2: Geology 1403: Physical Geology (Fall, Spring, Summer) OR Geology 1405: Geologic & Environmental Hazards (F, Sp, Su)

In addition to the completion of the 2 required 1000-level Geology courses above, it is *strongly recommended* that students complete Chem I and II, Physics I and II, and their Math courses during their first two years and prior to enrolling in Geol 3404, Geol 4304, Geol 4320, Geol 4400, Geol 4402, or Geol 4426.

Geology 3301: Field Methods (Summer after Soph. or Junior year - May minimester)

Geology 3404: Mineralogy (Fall) Geology 3405: Petrology (Spring) Ideally, Mineralogy and Petrology should be completed during the student's sophomore or junior year before enrolling in the following courses:

Geology 4400: Stratigraphy & Sedimentation (Fall) Geology 4304: Geochemistry (Fall)

Geology 4402: Structural Geology (Spring) Geology 4320: Petroleum Geology (Spring)

Geology 4360: Field Geology (Final summer) Geology 4361: Field Geology (Final summer)

Required: Geology 1404: Historical Geology

Select 1 of the following: Geology 1403: Physical Geology **OR** Geology 1405: Geologic & Environmental Hazards

In addition, 12 advanced (3000 or 4000 level) Geology elective hours are required.



Geology 1404: Historical Geology (Fall, Spring)

Geology Minor