and Geosciences

B.S. in Geology (Geoscience)

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 & Heat

Physics 1101: General Physics Lab I

Physics 1302: General Phy- Sound, Lght, Elec, & Mag

Physics 1102: General Physics Lab II

Major Core:

Choose 1 of the following 2:

Geology 1403: Physical Geology OR

Geology 1405: Geologic & Environmental Hazards

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 electives:

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

Geography/Geology 4399: Internship

Geology 4426: Hydrogeology

Geography 4330: Hydrology & Water Resources

Geography 4432: Geomorphology

B.S. in Geology

Degree-Specific Requirements*:

Chemistry 1411: General Chemistry I Chemistry 1412: General Chemistry II

Math 1420: Calculus I

Choose 1 of the following 2: Math 1430: Calculus II OR

Math 3379: Statistical Methods in Practice Physics 1301: General Phy- Mechanics & Heat

Physics 1101: General Physics Lab I

Physics 1302: General Phy- Sound, Lght, Elec, & Mag

Physics 1102: General Physics Lab II

Major Core:

Choose 1 of the following 2:

Geology 1403: Physical Geology OR

Geology 1405: Geologic & Environmental Hazards

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 Geology 4360: Field Geology Geology 4361: Field Geology

Select 10 cr from the following advanced electives:

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

Geography/Geology 4399: Internship

Geology 4426: Hydrogeology

Geography 4330: Hydrology & Water Resources

Geography 4432: Geomorphology

Suggested Course Sequence

Choose 1 of the following 2:

Geology 1403: Physical Geology (Fall, Spring) OR

Geology 1405: Geologic & Environmental Hazards (F, Sp)

Geology 1404: Historical Geology (Fall, Spring)

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)

Geology Minor

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.

*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.