



# FORT HAYS STATE UNIVERSITY

WERTH COLLEGE OF SCIENCE, TECHNOLOGY AND MATHEMATICS

Department of Geosciences

*Forward thinking. World ready.*

## BACHELOR OF SCIENCE GEOSCIENCES (120 HRS)

### GENERAL EDUCATION FOUNDATION STUDIES (18 HRS)

ENG 101 English Composition I (3 HRS)  
ENG 102 English Composition II (3 HRS)  
COMM 100 Fundamentals of Oral Communication (3 HRS)

MATH 101 Liberal Arts Mathematics (3 HRS)  
**OR** MATH 110 College Algebra (3 HRS)  
MIS 101 Introduction to Computer Information Systems (3 HRS)  
HHP 200 Personal Wellness

### GENERAL EDUCATION LIBERAL ARTS (37 HRS)

HUMANITIES (9 HRS)  
MATHEMATICS AND NATURAL SCIENCES (10 HRS)  
*(Geology cognates satisfy Math and Sci requirements)*

SOCIAL AND BEHAVIORAL SCIENCES (9 HRS)  
INTERNATIONAL STUDIES (6 HRS)  
INTEGRATIVE COURSES: UPPER-LEVEL ELECTIVE (3 HRS)

### PROGRAM REQUIREMENTS

#### GEOSCIENCES CORE (9 HRS)

GSCI 100 Introduction to Geology (3 HRS)  
GSCI 240 Introduction to GIS (3 HRS)  
GSCI 630 Geostatistics and Spatial Data Analysis (3 HRS)  
**OR** MATH 250 Elements of Statistics (3 HRS)  
**OR** BIOL 620 Biostatistics (3 HRS)

#### GEOLOGY (27 HRS)

GSCI 102 Introduction to Geology Lab (1 HR)  
GSCI 202 Historical Geology + Lab (5 HRS)  
GSCI 310 Mineralogy + Lab (4 HRS)  
GSCI 320 Petrology + Lab (4 HRS)  
GSCI 450 Structural Geology + Lab (4 HRS)  
GSCI 452 Field Methods (3 HRS)  
GSCI 454 Field Study in Geosciences (6 HRS)

#### COGNATES (8 HRS; the other 10 count toward Gen Ed)

▲CHEM 120 University Chemistry I (5 HRS)  
CHEM 122 University Chemistry II (5 HRS)  
▲PHYS 111 Physics I (5 HRS)  
**OR** PHYS 211 Physics for Scientists & Engineers I (5 HRS)  
MATH 331 Calculus Methods (3 HRS)  
**OR** MATH 234 Analytic Geometry and Calculus I (5 HRS)

#### GENERAL ELECTIVES (21 HRS)

Chosen in consultation with your advisor.  
Some career goals (e.g., petroleum geology) will require very specific courses to be chosen as degree electives.

#### GEOGRAPHY (26 HRS)

GSCI 101 Elements of Physical Geography (3 HRS)  
GSCI 105 Cultural Geography (3 HRS)  
GSCI 110 World Geography (3 HRS)  
GSCI 290 Cartography (3 HRS)  
GSCI 321 U.S. Geography (3 HRS)  
**OR** GSCI 600 Kansas Geography (3 HRS)  
GSCI 330 Urban Geography (3 HRS)  
GSCI 360 Intermediate GIS (3 HRS)  
GSCI 651 Field Study in Geography (1 HR)  
GSCI 675 Seminar in Geosciences (1 HR)  
GSCI 695 Internship in Geosciences (3 HRS)

#### GEOSCIENCES ELECTIVES (9 HRS)

#### GENERAL ELECTIVES (21 HRS)

Chosen in consultation with your advisor

#### MINOR

GSCI 100 Introduction to Geology (3 HRS)  
GSCI 102 Introduction to Geology Lab (1 HR)  
GSCI 202 Historical Geology + Lab (5 HRS)  
11 HRS of Geosciences electives

#### MINOR

GSCI 101 Elements of Physical Geography (3 HRS)  
GSCI 110 World Geography (3 HRS)  
GSCI 240 Introduction to GIS (3 HRS)  
11 HRS of Geosciences electives

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Geosciences at FHSU



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