



FORT HAYS STATE UNIVERSITY

WERTH COLLEGE OF SCIENCE, TECHNOLOGY AND MATHEMATICS

DEPARTMENT OF GEOSCIENCES

BACHELOR OF SCIENCE GEOSCIENCES (120 HRS)

GENERAL EDUCATION/FHSU (CORE) PROGRAM (34-55)

Completion of current General Education/FHSU CORE Program requirements.

See separate General Education/FHSU CORE Program with list of suggested courses for Geosciences majors.

PROGRAM REQUIREMENTS

GEOSCIENCES CORE (12-13 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 + Lab (4 HRS)

GSCI 685 Writing in the Sciences (3 HRS)

GEOLOGY (27 HRS)

GSCI 102 Introduction to Geology Lab (1 HR)

GSCI 202 Historical Geology + Lab (4 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 Studies in Geosciences (6 HRS)

GSCI 675 Seminar in Geosciences (1 HR)

COGNATES (18-20 HRS)

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 Analytical Geometry and Calculus I (5 HRS)

GENERAL ELECTIVES

(Number of HRS depends on CORE)

Chosen in consultation with your mentor and academic advisor. Some career goals (e.g., petroleum geology) will require specific courses.

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 Remote Sensing (3 HRS)

GSCI 360 Intermediate GIS (3 HRS)

GSCI 651 Field Study in Geography (1 HR) or

One of GSCI 380-385 Field Trip: (1 HR)

GSCI 675 Seminar in Geosciences (1 HR)

GSCI 695 Internship in Geosciences (3 HRS)

GEOSCIENCES ELECTIVES (9 HRS)

Chosen in consultation with your mentor and academic advisor.

GENERAL ELECTIVES

(Number of HRS depends on CORE)

Chosen in consultation with your mentor and academic advisor.