



FORT HAYS STATE UNIVERSITY

WERTH COLLEGE OF SCIENCE, TECHNOLOGY AND MATHEMATICS

DEPARTMENT OF GEOSCIENCES

BACHELOR OF SCIENCE GEOSCIENCES (APPLIED GEOLOGY) (120 HRS) ON-LINE

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

OR BIOL 620 Biostatistics + Lab (4 HRS)

GSCI 685 Writing in the Sciences (3 HRS)

TECHNICAL GEOLOGY (30 HRS)

GSCI 102 Introduction to Geology Lab (1 HR)

GSCI 202 Historical Geology + Lab (4 HRS)

GSCI 290 Cartography (3 HRS) ^

GSCI 315 Rocks and Minerals (3 HRS)

GSCI 330 Remote Sensing Concepts (3 HRS) ^

GSCI 340 Environmental Geology (3 HRS)

GSCI Field Electives (4 HRS)

GSCI 355 Field Trips in Geology (1 HR)

GSCI 380-389 Field Trip (1 HR)

GSCI 360 Intermediate GIS (3 HRS) ^ **

GSCI 372 Earth Processes (3 HRS)

GSCI 625 Advanced GIS (3 HRS) ^

COGNATES (11 HRS)

CHEM 100 The Chemists View of the World (3 HRS)

PHYS 111 Physics I + Lab (5 HRS)

MATH 331 Calculus Methods (3 HRS)

GENERAL ELECTIVES (22 HRS)

Chosen in consultation with advisor. Some certificates will require specific courses to be chosen as degree electives (see Suggested General Electives)

SUGGESTED GENERAL ELECTIVES

BIOL 200 Humans & the Environment (3 HRS) +

CRJ 355 Crime Investigation (3 HRS) **

CRJ 395 Crime Analysis (3 HRS) **

IDS 390 Technology in Society (3 HRS) +

IDS 300 Economic Ideas & Current Issues +

IDS 407 Global Challenges (3 HRS) +

IDS 499 Global Environmental Issues (3 HRS) +

GSCI 101 Elements of Physical Geography (3 HRS) +

GSCI 203 Introduction to Petroleum (3 HRS)

GSCI 602 Understanding Earth's History (3 HRS)

GSCI 605 Geomorphology + Lab (4 HRS)

GSCI 620 Advanced Cartography (3 HRS) ^

GSCI 655 GIS Programming (3 HRS) ^

CERTIFICATE COURSES

^ GIS Certificate

+ Sustainability Certificate

** Crime Mapping and Analysis Certificate

*Note: Courses under development,
department will substitute courses for requirement.*