Courses

GEOG 1000. Physical Geography (PS). 3 Hours.
Fulfills Physical Science General Education Requirement. Focuses on the physical dynamics of the natural environment, including atmosphere, lithosphere, biosphere, hydrosphere and their integrated patterns of global distribution. Successful completion enables students to be familiar with climates, landforms, soils, water, plants, animals and how they all interact to make up the surface of the earth, provide resources for society, and create natural hazards. One field trip required. GEOG 1005 OR GEO 2000R lab course recommended. Course fee required. FA, SP, SU.

GEOG 1005. Physical Geography Lab. 1 Hour.
Lab portion of GEOG 1000. One field trip required. Lab fee required. Corequisite: GEOG 1000. FA, SP, SU.

GEOG 1020. Introduction to Weather (PS). 3 Hours.
Fulfills General Education Physical Science requirement. Survey of the atmosphere and related phenomenon, including the impact of weather on human activities as well as understanding of basic weather principles. GEOG 1025 lab course recommended but not required. Offered upon sufficient student need.

GEOG 1025. Introduction to Weather Lab (LAB). 1 Hour.
A laboratory course to be taken concurrently with GEOG 1020. Lab fee required. Corequisite: GEOG 1020. Offered upon sufficient student need.

GEOG 1300. World Regional Geography. 3 Hours.
The study of different places, countries, and regions of the world. Addresses topics relating to natural environment, ethnic diversity, and regional differences in subjects related to culture, gender, age, class, social structure, spatial organization, and economic activities. Current social conditions within the world's major culture realms are analyzed and compared. SP.

GEOG 2000R. Natural History of Zion National Park (LAB). 1 Hour.
Fulfills General Education Laboratory Sciences requirement. Provides an opportunity for students to study in a field-research setting and learn about the natural history of Zion National Park. Topics will include plants, animals, geology, environmental issues and human history. The class will be held over a 4-5 day period (overnight stays required). Repeatable up to 2 credits. Offered on sufficient student need. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate an understanding of the time and processes necessary for geologic change. 2. Identify and demonstrate an understanding of the differences between plants found in the variety of ecosystems found in and near Zion National Park. 3. Identify and demonstrate an understanding of the differences between animals found in the variety of ecosystems found in and near Zion National Park. 4. Develop the ability to research an environmental issue in Zion National Park. Course fee required. FA, SP, SU.

GEOG 2990. Seminar in Geography. 0.5-3 Hours.
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students request some type of non-traditional instruction, or an unanticipated opportunity for instruction presents itself. This seminar course provides a variable credit context for these purposes. As requirements, this seminar course must first be pre-approved by the department chair; second, it must provide at least nine contact hours of lab or lecture for each credit hour offered; and third, it must include some academic project or paper (i.e., credit is not given for attendance alone). This course may include standard lectures, travel and field trips, guest speakers, laboratory exercises, or other non-traditional instruction methods. Note that this course is an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

GEOG 3600. Introduction to Geographic Information Systems. 3 Hours.
Introduces the history, theory, and operation of Geographic Information Systems (GIS). Includes an introduction to GIS data sources, database design, data input, spatial analysis, and map production. Offers valuable preparation for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental science, biology, engineering, and other related fields. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Learn the history, theory, and operation of Geographic Information Systems (GIS). 2. Be introduced to GIS data sources, database design, data input, spatial analysis, and map production. 3. Learn how GIS is used in for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. 4. Explain the technical and theoretical aspects of GIS-based modeling. 5. Gather and develop appropriate spatial and non-spatial data from various sources for use in GIS through lab exercises and an applied project. Corequisite: GEOG 3605. SP.

GEOG 3605. Introduction to Geographic Information Systems Laboratory. 1 Hour.
A laboratory component of GEOG 3600 to have experience working with GIS software, data sources, database design, data input, spatial analysis, and map production. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate the technical skills of GIS to acquire, analyze, and visualize the results of geographic problem solving. 2. Acquire an in-depth knowledge of the technical aspects involved in spatial data handling and analysis. 3. Gather and develop appropriate spatial and non-spatial data from various sources for use in GIS through lab exercises and an applied project. 4. Apply the GIS to their own field of interest to solve real-world problems. Course fee required. Corequisite: GEOG 3600. FA.
GEOG 4200. Geography of Utah. 3 Hours.
Explores human and physical phenomena that make Utah distinctive. Lectures examine webs of relationships among Utah’s people, places, and environments. Students examine Utah’s contrasting physical and social environments and explore what is meant by a sense of place. Offered upon sufficient student need.