

GEOG-120 GPS & Surveying Methods 4 cr.

This course provides an overview of global positioning systems. Topics include the theory, implementation, and operations of global positioning systems. Students will learn the fundamentals of acquiring GIS data using GPS technology, and understand surveying methods important for use in GIS. Prerequisites: GEOG-118. Offered: Spring.

GEOG-125 Weather and Climate 3 cr.

Introduces the atmospheric processes and geographic distribution of factors that interact to create weather systems and storms. Course will address issues such as the greenhouse effect, severe weather, global temperature patterns and air pollution, and the implications of climate change. Semester Offered: Fall.

GEOG-130 Natural Hazards 3 cr.

This course focuses on the natural hazards that exist around the globe and impact humans in loss of life and property in seemingly unpredictable events. Emphasis will be on the cause and effect, patterns, emergency response and mitigation of natural hazards in relation to human settlement and development. Offered: Spring.

GEOG-135 Energy & Natural Resources Geography 3 cr.

An overview of technical, historical, economic, social, and environmental aspects of energy systems, including fossil fuels, nuclear, solar, wind, biomass, and energy end use efficiency and conservation. The class will also cover how energy and natural resources (agriculture, food supplies, forest products, mining, etc.) are developed and their effects on the environment, economy, public health, national security, transportation, and cultural development at local and global scales. Offered: Fall.

GEOG-140 Geography of the Four Corners 3 cr.

Focus on the geography of the Four Corners region of the southwestern United States. The course provides an overview of climate, geology, topography, soils, vegetation, ecosystems, cultural and historical geography of the region. Current environmental, social, economic, and political issues will be discussed. Field trips are required and may include an overnight trip. Offered: Spring.

GEOG-145 Human Geography 3 cr.

Explores the complex relationships between humans and their environments. Examines such fields as population distribution and characteristics, health and nutrition, culture in its various manifestations, economic activity, political entities, and settlement. Prerequisites: Completion of RDNG-113 or appropriate Reading Accuplacer score. Corequisites: ENGL-111, MATH-095. Offered: Fall.

GEOG-151 GIS I 4 cr.

This course covers the fundamentals of GIS theory and application. Emphasis will be placed on understanding how geographic features are represented, captured, and stored as digital data, and how that data may be analyzed and mapped using state-of-the-art GIS tools. Lab projects will develop hands-on expertise with industry standard software. Prerequisites: GEOG 118 and COSC-125. Offered: Fall & Spring.

GEOG-230 Geographic Image Analysis 4 cr.

This course will cover the foundations of remote sensing, aerial photo interpretation, the use of imagery in GIS, and 3D visualization through lecture and lab. Students will engage in specific applications such as image classification and multi-spectral analysis to solve real world urban and environmental problems. Prerequisites: GEOG-115 and GEOG-151. Offered: Spring.

GEOG-251 GIS II 4 cr.

This course builds on the knowledge and skills developed in GIS I. This course provides more detailed instruction on the theories and procedures associated with the implementation of GIS projects, their management, and their completion. Emphasis on in-depth spatial analysis and applications of GIS. Hands-on expertise will be further developed. Prerequisites: GEOG-115, and GEOG-151. Offered: Fall.

GEOLOGY**GEO-110 Introduction to Geology 4 cr.**

A study of the composition and structure of the earth, including plate tectonics, minerals, the rock cycle, mountain building, energy resources, and natural hazards such as volcanoes, earthquakes, and landslides. This class includes optional weekend field trips. Offered: Fall & Spring.

GEO-111 Historical Geology 4 cr.

The geologic history and development of life on the earth as recorded by rocks and fossils. Special consideration is given to plate tectonics and fossils in the lectures and to fossils and geologic maps in the laboratories. This class includes a field trip. Prerequisites: GEO-110. Offered: Spring.

GEO-115 Geology of the Four Corners 4 cr.

Studies the geologic history and processes that shaped the Four Corners Region and the Colorado Plateau. Classroom meetings will focus on providing students with necessary geology background which will then be applied in a field setting. Required overnight field trips. Offered: On Demand.

GEO-120 Intro to Petroleum Geology 4 cr.

This course will study various aspects of petroleum geology and fossil fuels. Content will include formation and classification of regional sedimentary rocks, geologic history of the Four Corners Region, and formation, detection, and extraction of oil, natural gas, and coal. This class includes field trips. Offered: Summer.

GEO-270 Mineralogy 4 cr.

A study of elementary crystallography. Topics covered include description, identification, classification, chemistry, and occurrence of minerals that form common rocks and ore deposits. This class includes a field trip. Prerequisites: GEO-110. Offered: Fall.

GEO-271 Petrology 4 cr.

The origin, classification, and identification of igneous, sedimentary, and metamorphic rocks. This class includes a field trip. Prerequisites: GEO-270. Offered: Spring.

GEOL-276 Environmental Geology 3 cr.
Earth processes that affect man and his works. Properties of rocks and soil; use and application of environmental geological data. Offered: On Demand.

GERMAN

GERM-111 Elementary German I 4 cr.
Develops listening, speaking, reading, and writing skills. Uses a communicative approach to cover vocabulary, grammar, conversation, and culture. Offered: On Demand.

GERM-112 Elementary German II 4 cr.
Continuation of GERM-111. Offered: On Demand.

HISTORY

HIST-121 Western Civilization to 1700 3 cr.
Examines the intellectual, social, economic, cultural, and political evolution of Western Civilization from the origins of the humanity to 1700. [NM Common Course Number HIST 1053, Area V: Humanities/ Fine Arts Core]. Prerequisites: Completion of ENGL-099 and RDNG-095 or appropriate Accuplacer English and Reading Scores. Offered: All.

HIST-122 Western Civilization from 1700 3 cr.
Examines the intellectual, social, economic, cultural, and political evolution of Western Civilization since 1700. [NM Common Course Number HIST 1063, Area V: Humanities/Fine Arts Core]. Prerequisites: Completion of ENGL-099 and RDNG-095 or appropriate Accuplacer English and Reading scores. Offered: All.

HIST-211 U.S. History to 1865 3 cr.
Introduces students to the history of the United States from its beginnings to the end of the Civil War. It focuses on the central themes and issues while examining the political, economic, social, intellectual and cultural developments of the era. Classes include lecture and discussion components. [NM Common Course Number HIST 1113, Area V: Humanities/Fine Arts Core]. Prerequisites: Completion of RDNG-113 or appropriate Accuplacer Reading score. Corequisites: ENGL-111. Offered: All.

HIST-212 U.S. History From 1865 3 cr.
Introduces students to the history of the United States from the end of the Civil War to the present. It focuses on the central themes and issues while examining the political, economic, social, intellectual and cultural developments of the era. Classes include lecture and discussion components. [NM Common Course Number HIST 1123, Area V: Humanities/Fine Arts Core]. Prerequisites: Completion of RDNG-113 or appropriate Accuplacer Reading score. Corequisites: ENGL-111. Offered: All.

HIST-221 Colonial Latin America 3 cr.
Examines the major civilizations of pre-conquest Central and South America, the Spanish and Portuguese Conquests, and the colonial history of Latin America to the completion of the independence movements of the early 19th century. Prerequisites: Completion of RDNG-113 or appropriate Accuplacer Reading score. Corequisites: ENGL-111. Offered: On Demand.

HIST-222 Modern Latin America 3 cr.
Examines the nation building process of Latin America following independence in the early 19th century to the present. Latin America will be investigated in the context of the larger world community. Classes include lecture and discussion components. Prerequisites: Completion of RDNG-113 or appropriate Accuplacer Reading score. Corequisites: ENGL-111. Offered: On Demand.

HIST-260 New Mexico History 3 cr.
Examines the history of New Mexico from the earliest times to the present, concentrating on the political, economic, social, and cultural changes that have occurred. [NM Common Course Number HIST 2113, Area V: Humanities/Fine Arts Core]. Prerequisites: Completion of RDNG-113 or appropriate Accuplacer Reading score. Corequisites: ENGL-111. Offered: Fall & Spring.

HIST-270 Native American History and Culture 3 cr.
Introduces the history and cultures of Native peoples of North America from the earliest times to the present. The course will examine culture change and the interaction of native groups with each other and European peoples. Contemporary priorities and ongoing concerns are also examined. Prerequisites: Completion of ENGL-099 and RDNG-113 or appropriate English and Reading Accuplacer scores. Offered: Spring.

HIST-272 Navajo History 3 cr.
Introduces the history of the Navajo with supporting ethnographic material. The course begins with the entrance of the Dine into the Southwest and continues to the present, with a concentration on the 20th century political and economic development. Offered in collaboration with Dine College (NIS 211). Prerequisites: Completion of RDNG-095 and ENGL-099 or appropriate Accuplacer Reading and English scores. Offered: Fall.

HEALTH INFORMATION TECHNOLOGY

HITP-110 Medical Terminology 3 cr.
This course presents the study of the language of medicine, focusing on prefixes, suffixes, word roots and their combining forms. This course includes word construction, spelling, usage, comprehension and pronunciation. Students are provided with information regarding anatomy, symptomatology, pathology, and diagnostic/surgical procedures. Open to all SJC students. Prerequisites: Completion of RDNG-095 or appropriate Reading Accuplacer score. Offered: All.

HITP-112 Human Body: Structures and Functions 4 cr.
This course introduces the student to the basic concepts of physical and chemical operation of the organs and systems of the human body. System reviews to include integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproductive systems. Minimum grade required: C. Offered: All. Faculty Permission Required.

HITP-116 Computerized Business Applications 3 cr.
This course provides the student with basic computer skills including the Microsoft Office Professional package. It also covers the use of database applications and the development and use of queries. Prerequisites: Completion of RDNG-113 or appropriate Reading Accuplacer score. Offered: All.