

**GEOL-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. Textbook, lectures, laboratories, and a field trip. Prerequisite: GEOL 110. Semester offered: On demand. [NM Common Course Number GEOL 1214, Area III; Laboratory Science Core]

**GEOL-115 Geology of the Four Corners 4 cr.**

Studies the geologic history and processes that shaped the Four Corners Region and the Colorado Plateau. Content will include the local sedimentary rocks and depositional environments, fossils of the region, geomorphology, and deformation. Classroom meetings will focus on providing students with necessary geology background which will then be applied in a field setting. Required overnight field trips. Semester Offered: On demand.

**GEOL-120 Introduction 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. Semester offered: Summer.

**GEOL-270 Mineralogy 4 cr.**

A study of elementary crystallography. Topics covered include description, chemistry, determination, and occurrence of minerals that form common rocks and ore deposits. Textbook, lectures, laboratories, and a field trip. Prerequisite: GEOL 110. Semester offered: On demand.

**GEOL-271 Petrology 4 cr.**

The origin, classification, and identification of igneous, sedimentary and metamorphic rocks. Textbook, lecture, laboratories, and field trip. Prerequisite: GEOL 270. Semester offered: On Demand.

**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. Semester offered: On Demand.

**GEOL-290 Special Topics 1-4 cr.**

Specific subjects and credits to be announced in the schedule of classes.

**GEOL-295 SPTO: (Special Topics) 1-4 cr.**

Special or specific topic course to meet the needs of students. Topics and credits are announced in the Schedule of Classes. These courses may be used as electives for Associate degree requirements. May be repeated one or more times for additional credit. No more than 6 credits of special topic courses can be used toward a degree.

**GEOL-299 Directed Study 1-6 cr.**

Special or specific topic course to meet the needs of students. These courses may be used as electives for Associate degree requirements. May be repeated one or more times for additional credit. No more than 6 credits of special topic courses can be used toward a degree.

**GERMAN****GERM-105 SPIN: (Special Interest) 1-3 cr.**

Course is designed to address a variety of subjects required to meet the needs of lifelong learning students. Not available for transfer or applicable as an elective.

**GERM-111 Elementary German I 4 cr.**

The purpose of this beginning class is to develop listening, speaking, reading and writing skills to communicate at a basic level. The course will use a communicative approach to cover the fundamentals of basic vocabulary, grammar, conversation and culture. Prerequisites: APEN 40+ and APRD 39+ or Permission of instructor. Semester offered: Fall, Spring.

**GERM-112 Elementary German II 4 cr.**

Continuation of GERM 111, Elementary German I Prerequisites: GERM 111 or Permission of instructor. Semester offered: Spring.

**GERM-211 Intermediate German I 3 cr.**

This course is designed to further develop listening, speaking, reading and writing skills in German at an intermediate level. The course will use a communicative approach to reinforce and expand the students' working knowledge of vocabulary, grammar, and culture. Prerequisite: GERM 112 or Permission of instructor. Semester offered: Fall and Spring.

**GERM-212 Intermediate German II 3 cr.**

Continuation of Intermediate German I. Prerequisite: GERM 211 or equivalent or Permission of instructor. Semester offered: Fall, Spring.

**GERM-295/299 SPTO: (Special Topics) 1-4 cr.**

Special or specific topic course to meet the needs of students. Topics and credits are announced in the Schedule of Classes. These courses may be used as electives for Associate degree requirements. May be repeated one or more times for additional credit. No more than 6 credits of special topic courses can be used toward a degree.

**GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY****GIST-110 Introduction to GIS 4 cr.**

This course is an introduction to the fundamentals of GIS theory, history and application. Emphasis will be placed on understanding how geospatial features are represented or captured as data and how these data can be analyzed and presented using state-of-the-art GIS tools. Hands-on expertise will be developed with industry standard software.

**GIST-111 Introduction to Mapping Techniques 4 cr.**

This course is an introduction to the primary mapping technologies in current use today. Students will develop a basic understanding of Geographic Information Systems (GIS), Global Positioning System (GPS), and remote sensing technologies. Emphasis will be placed on applications of these technologies to a variety of fields. A lab is required. Semester Offered: Fall, Spring.