Contact the Earth, Space, and Aviation Sciences Department for further information. (760) 744-1150, ext. 2512 Office: NS-110G

#### **Associate in Arts Degrees -**

AA Degree requirements are listed in Section 6 (green pages). Geology

### **PROGRAM OF STUDY**

## Geology

Provides the student with sufficient background to begin upper division coursework and will prepare the student for entry-level jobs that require basic geologic knowledge. The student is advised to check with the school to which he/she may wish to transfer for additional courses which may be required.

#### **A.A. DEGREE MAJOR**

#### **Program Requirements** Units **Group One** GEOL 100 Basic Geology GEOL 100L **Basic Geology Laboratory** 1 GEOL 150 Dinosaurs and Earth History GEOL 150L Dinosaurs and Earth History Laboratory GEOL 195 Regional Field Studies in Geology Group Two (Select at least two sets of courses listed below) Set I MATH 140 and Calculus/Analytic Geometry, First Course MATH 141 Calculus/Analytic Geometry, Second Course Set 2 PHYS 120 and PHYS 121 **General Physics** or PHYS 230 and PHYS 231 Principles of Physics Set 3 CHEM 110 General Chemistry CHEM 110 General Chemistry Laboratory CHEM 115 General Chemistry CHEM 115L General Chemistry Laboratory Group Three (Select at least 8 units) Any other courses in Group Two not taken above GEOL 110 General Geology: National Parks GEOL/ **GEOG 125** California Geology and Geography GEOL 195 Regional Field Studies in Geology **GEOL 197 Geology** Topics Directed Study in Geology **GEOL 295** Principles of Astronomy ASTR 100 BIOL 100 General Biology 4 **MATH 205** Calculus/Analytic Geometry, Third Course **MATH 206** Calculus/Differential Equations 4 OCN 100 3 Oceanography OCN 100L Oceanography Laboratory T **PHYS 232** Principles of Physics 4 35 - 38

Geology

(I)

#### **COURSE OFFERINGS**

GEOL 100 Basic Geology	(3)
3 hours lecture	
Note: Together with GEOL 150, a prerequisite to upper division courses in G	eology
Transfer acceptability: CSU; UC	
Principles of physical geology. Plate tectonics, rocks and minerals, we	athering,

Pr mass-wasting, surface and ground water, wind, waves and currents, glaciation, mountain building, volcanoes and other igneous activity, deformation and resulting structures, earthquakes, Earth's interior, geologic time, and earth resources.

### GEOL 100L Basic Geology Laboratory

3 hours laboratory

Prerequisite: A minimum grade of 'C' in GEOL 100, or concurrent enrollment in GEOL 100

Note: May be offered as a field laboratory; satisfies lab requirement in Physical Science

Transfer acceptability: CSU; UC

GEOL 110 General Geology:

Laboratory and field identification of rocks and rock forming minerals. Study of geologic processes by means of geologic and topographic maps.

National Parks and Monuments (3) 3 hours lecture 3 Transfer acceptability: CSU Geologic history and processes of formation of our natural landscape. Principles 3 of physical and historical geology as revealed in the structure, stratigraphy, and Т rock types of the parks and monuments. 2 GEOL 120 Planets, Moons, and Comets (3) 3 hours lecture Note: Cross listed as ASTR 120 5 Transfer acceptability: CSU; UC 4 The astronomy and geology of the solar system, observations, dynamics, relativistic ideas, including theories of formation and evolution. Comparative survey of the atmospheres, surface features, and interiors of planets and satellites. Minor objects, such as comets and asteroids, will be included. 8 GEOL 125 California Geology and Geography (3) 3 hours lecture 10 Note: Cross listed as GEOG 125 Transfer acceptability: CSU; UC Emphasizes the physical geographic and geologic factors that have combined to 3 form the varied landscapes of California. Climate and vegetation patterns, as well 2 as the various geomorphic processes will be studied. 3 2 GEOL 150 Dinosaurs and Earth History (3) 3 hours lecture Prerequisite: A minimum grade of 'C' in GEOL 100, 110 or 125 8-10 Transfer acceptability: CSU 3 Principles of historical geology. The origin and evolution of Earth and its biosphere, incorporating plate tectonics, stratigraphy, paleontology, and geologic dat-3 ing. Together with GEOL 100, a prerequisite to upper division courses in geology. 1, 2, 3 1, 2, 3 GEOL 150L Dinosaurs and Earth History Laboratory (1) 1, 2, 3 3 hours laboratory 3 Prerequisite: A minimum grade of 'C' in GEOL 150, or concurrent enrollment in 4 GEOL 150 Transfer acceptability: CSU; UC

Laboratory and field identification of rocks and fossils. Elements of stratigraphic methods and of vertebrate and invertebrate paleontology. Study of geologic and

topographic maps in relation to earth history.

(5)

#### GEOL 195 Regional Field Studies in Geology (1, 2, 3)

1/2, 11/2 hours lecture - 11/2, 41/2 hours laboratory Prerequisite: A minimum grade of 'C' in GEOL 100, 110 or 125 or GEOG 100 Note: May be taken 4 times with different content for a maximum of 6 units

Transfer acceptability: CSU; UC - Credit determined by UC upon review of course syllabus.

Extended field studies of the geology of western North America over weekends and during vacation and summer sessions. Emphasis upon field observation and interpretation of rock types, landforms, and structure. Localities visited may vary from year to year.

#### GEOL 197 Geology Topics

(1-3)

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.

Note: May be taken 3 times for a maximum of 6 units

Transfer acceptability: CSU

Topics in Geology. See Class Schedule for specific topic offered. Course title will designate subject covered.

### GEOL 295 Directed Study in Geology

(1, 2, 3)

(5)

(5)

(5)

Arrange 3, 6, or 9 hours laboratory with department chairperson

Prerequisite: A minimum grade of 'C' in GEOL 150

Note: May be taken 4 times for a maximum of 6 units

Transfer acceptability: CSU - UC Credit determined by UC upon review of course svllabus.

Individual study in field, library, or laboratory for interested students.

# German (GERM)

Contact the World Languages Department for further information. (760) 744-1150, ext. 2390 Office: F-5

**COURSE OFFERINGS** 

For students who have completed foreign language course work at the high school level, and need clarification regarding placement in college level course work, contact the Counseling Center. Universities have varying policies regarding the granting of transfer credit when there is a combination of high school and college level course work.

#### GERM 101 German I

5 hours lecture - 1 hour laboratory

Transfer acceptability: CSU; UC

This course is the first semester of German. This elementary level course is a study of the German language and German-speaking cultures, with emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the Foreign Language Laboratory. This beginning-level course is for students with no previous coursework in German.

### GERM 102 German II

5 hours lecture - 1 hour laboratory

Prerequisite: A minimum grade of 'C' in GERM 101 or two years of high school German

### Transfer acceptability: CSU; UC

This course is the second semester of German. This elementary level course is a study of the German language and German-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction with self-paced study in the Foreign Language Laboratory.

### GERM 201 German III

5 hours lecture

Prerequisite: A minimum grade of 'C' in GERM 102 or three years of high school German

Transfer acceptability: CSU; UC

This course is the third semester of German. This intermediate level course is a study of the German language and German-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in German. Class is largely conducted in German.

#### GERM 202 German IV

5 hours lecture

Prerequisite: A minimum grade of 'C' in German 201 or four years of high school German

#### Transfer acceptability: CSU; UC

This course is the fourth semester of German. This intermediate level course is a study of the German language and of special topics on the culture of the Germanspeaking world. Emphasis is on further development of cross-cultural awareness, as well as, the development of oral, listening, reading and writing skills in order to improve communicative competence in German. Class is largely conducted in German.

# Graphic Communications (GC)

#### See also Graphic Communications - Imaging & Publishing, and Graphic Communications - Multimedia & Web

Contact the Graphic Communications Department for further information. (760) 744-1150, ext. 2452 Office: MD-114

For transfer information, consult a Palomar College Counselor.

#### **COURSE OFFERINGS**

#### GC 100 **Graphic Communications** (3) 3 hours lecture

Transfer acceptability: CSU

Explores the history and theory of effective mass communication from prehistoric cave art, to invention of the printing press, and modern graphic communication techniques using computers and the Internet. The class examines communication models revolving around imagery, type, delivery systems, and technology. The students will be able to understand and establish the effects of a clear visual message. Learning modules include slideshow, field trips, guest speakers, discussion, lectures and hands-on application with computers and the Internet to promote an understanding of graphic communications and visual messages and their impact on society.

#### GC 101 (3) **History of Graphic Communications** 3 hours lecture

#### Transfer acceptability: CSU

This course focuses on the history and evolution of graphic communications from prehistoric pictographs to present day graphic design. Topics include the invention of writing and the creation of alphabets. Other topics include world influences on print and aesthetic design, and an understanding of the stylistic, social, political, economic, and historical events as related to communication and graphic design. The emphasis is on art movements, schools of thought, influential individuals, and technology as they interrelate with the history of graphic arts. Historical topics are applied to photography, print media graphics and motion graphics. Field trips to museums and guest speakers will be integrated into the topics as appropriate.

GC 102	History of the Book and Publishing:	
	Papyrus to Pixels	(3)

#### 3 hours lecture Transfer acceptability: CSU; UC

A foundational course that explores the history and development of the book, printing, and publishing. Also explores their correlation with advancement of society, civilization, and the dissemination of information, including the history of the printing press, typesetting, papermaking, print technology and bindery.

#### GC 115 Graphics and Media: A Multicultural Perspective (3) 3 hours lecture

Note: Cross listed as MCS 115 Transfer acceptability: CSU; UC

An introduction to the impact of media technology on the visual arts from a multicultural perspective. Includes print, Internet, multimedia, and game design. Embraces the diversity and multicultural perspectives that reflect American de-

