

## FT R167 – Fire Equipment and Apparatus

3 Units

**Prerequisites:** FT R151 or concurrent enrollment

3 hours lecture weekly

This course will introduce the student to concepts related to fire service hand tools, fuel powered equipment, electric powered equipment and hydraulic powered equipment. Maintenance, safety and uses of this equipment will be covered in detail. Identification and typing of pumping apparatus and aerial ladder apparatus will be presented.

Transfer credit: CSU

### NOTE: FT 170 – Firefighter I Academy

The Oxnard College Regional Fire Academy, OCRFA, is an Accredited Regional Training Program, ARTP, as identified by California State Fire Training. The Academy was officially re-accredited in January 2015, with the Firefighter 2013 curriculum serving as the primary source of instructional material. The Fire Academy offers 18 units, meeting 512 hours over 64 instructional periods, 0700-1700. FT R170 units are degree applicable. Strenuous physical fitness is a daily activity.

Admission to the fire academy is open to all eligible students and very competitive. A point rating system is used during the cadet selection process. Explanations regarding this process can be accessed from the "Apply to the Academy" link found on the Oxnard College Fire Academy home page. Prerequisites to apply consist of a valid NREMT or California EMT Certification, successful completion of FT R151 – Introduction to Fire Protection Organizations, a Medical Clearance, and a Lung Function (Spirometry) Test. Academy applications are comprehensive and will only be accepted if complete.

## FT R170 – Firefighter I Academy

18 Units

**Prerequisites:** EMT R169 and FT R151

**Advisories:** FT R154, FT R161, and FT R167

**Limitations:** Admission to the fire academy, medical clearance, and lung function (spirometry) test.

**Hours:** 10 lecture, 24 lab weekly

The Oxnard College Regional Fire Academy (OCRFA) provides the skills and knowledge needed for the entry level firefighter, career or volunteer, to perform duties safely, effectively, and competently. The seven overarching themes of the California State Fire Fighter I curriculum are: General knowledge germane to the profession, fire department communications, fireground operations, rescue operations, preparedness and maintenance, wildland suppression activities, and hazardous materials/WMD. All exams require an 80% passing grade for all academic and manipulative tests per State Fire Marshal requirements. Students are expected to obtain all required uniforms and safety equipment. State certification costs are the responsibility of the student. *Field trips will be required.*

Transfer credit: CSU

## GENERAL STUDIES

See pages 47-49 for Degree Requirements

## GEOGRAPHIC INFORMATION SYSTEMS

### COURSE DESCRIPTIONS

## GIS R106 – Introduction to Geographic Information Systems and Techniques

3 Units

**Hours:** 2 lecture, 3 lab weekly

**C-ID:** GEOG 155

This course introduces students to computer-based GIS, Geographic Information Systems, and its applications to spatial data management as a tool to understand the world by describing and explaining the human relationship to the physical environment. Topics include assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Hands-on exposure to spatial analysis and modeling with GIS through the use of computers is provided during the laboratory. (Same as GEOG R106.) *Field trips may be required.*

Transfer credit: CSU

## GEOGRAPHY

Geography is an integrative discipline that brings together the physical and human dimensions of the world in the study of people, places and environment. As a spatial study, its subject matter is Earth's surface and the processes that shape it, the relationships between people and environments, and the connections between people and places. That knowledge, in turn, provides a basis for humans to cooperate in the best interests of our planet. Geography provides students with skills for the workplace and skills for civic decision-making. Events around the world affect jobs and business at home. By learning geography, thoroughly, students come to understand the connections and relationships among themselves and people, places, and environments across the world. Geography is concerned with understanding the spatial dimension of human experience (space and place).

### CAREER OPPORTUNITIES

(Most careers require a bachelor's or advanced degrees)

Climatologist	Park Ranger
Conservationist	Remote Sensing Analyst
Economic Geographer	Transportation Analyst
Geo-Demographer	Urban Planner
G.I.S. Analyst	Wildlife Manager
Land-Use Analyst	

### FACULTY

Full-Time

James Danza

### ◆ GEOGRAPHY

#### Associate in Arts for Transfer

The Associate in Arts in Geography for Transfer (Geography AA-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. See page 63 for additional information.

**The following is required for all AA-T or AS-T degrees:**

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the Course and Program Information section of the catalog. All courses in the major must be completed with a grade of C or better or a “P” if the course is taken on a “pass-no pass” basis (Title 5 § 55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE-Breadth) (see page 68 for more information); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern (see page 75 for more information).
5. Complete requirements in residency. For students in the Ventura County Community College District, a minimum of 12 units must be completed in residency at the college granting the degree.

Students transferring to a CSU campus that does accept the Geography AA-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major at a particular campus). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

**The following CSU campuses have designated at least one major as “similar” to the Geography AA-T. Some campuses may also require or recommend specific course selections from choices within the AA-T. Please see a counselor or [adegreewithaguarantee.com](http://adegreewithaguarantee.com) for a comprehensive list of these designated majors and areas of emphasis/options within the Geography major.**

- California State University, Chico
- California State University, Dominguez Hills
- California State University, East Bay
- California State University, Fresno
- California State University, Fullerton
- Humboldt State University
- California State University, Long Beach
- California State University, Los Angeles
- California State University, Monterey Bay
- California State University, Northridge
- California State Polytechnic University, Pomona
- California State University, Sacramento
- California State University, San Bernardino
- San Diego State University
- San Francisco State University
- San José State University
- California State Polytechnic University, San Luis Obispo
- Sonoma State University
- California State University, Stanislaus

**REQUIRED CORE COURSES (7 UNITS):**

		<b>UNITS</b>
GEOG R101	Elements of Physical Geography	3
GEOG R101L	Physical Geography Lab	1
GEOG R105	Introduction to Human Geography	3

**LIST A - SELECT 6 UNITS FROM THE FOLLOWING:**

GEOG R102	World Regional Geography	3
GEOG R103	Introduction to Weather and Climate	3
GEOG R104	Geography of California	3

**LIST B - SELECT 6 UNITS FROM THE FOLLOWING:**

ANTH R102/H	Introduction to Cultural Anthropology/Honors	3
BIOL R101	General Biology	3
GEOL R101	Physical Geology	3
Any course not selected above from List A		3

**TOTAL REQUIRED MAJOR UNITS**

CSU General Education or IGETC Pattern	37-39
Double-Counted Units	(10-16)
Electives (CSU transferable units needed to reach 60)	12-20

**DEGREE TOTAL**

**60**

**PROGRAM STUDENT LEARNING OUTCOMES**

Upon successful completion of the Geography program students will be able to:

- Interpret Earth’s dynamic physical processes and identify their spatial distribution as they relate to the biodiversity and productivity of ecosystems.
- Identify and critically analyze patterns of human-environment interactions, including perception and use of natural resources.
- Apply geospatial technologies to the analysis of maps, graphs and spatial data sets.
- Display written competency in the description and analysis of geographic subject matter.
- Acquire knowledge and skills sufficient to allow one to pursue advanced study in geography or find employment in a geography-related field.
- Demonstrate familiarity with the application of geography in everyday life.

**COURSE DESCRIPTIONS**

**GEOG R101 – Elements of Physical Geography 3 Units**

*Hours: 3 lecture weekly*

*C-ID: GEOG 110*

This course is an introduction to physical geography as a spatial study which investigates the “human/environment” interaction process incorporating the elements of the atmosphere, lithosphere, hydrosphere, and biosphere. Global environmental issues will also be reviewed. *Field trips may be required.*  
*Transfer credit: CSU, UC*

**GEOG R101L – Physical Geography Lab 1 Unit**

*Prerequisites: GEOG R101 or concurrent enrollment*

*Hours: 3 lab weekly*

*C-ID: GEOG 111*

This laboratory is designed to accompany GEOG R101. It introduces the global physical world, its dynamics and spatial relationships. This lab features observation, measurement and analysis of basic principles and concepts pertaining to Earth’s physical systems, including the atmosphere, hydrosphere, lithosphere and biosphere. *Field trips will be required.*  
*Transfer credit: CSU, UC*

## **GEOG R102 – World Regional Geography**

**3 Units**

*Hours: 3 lecture weekly*

*C-ID: GEOG 125*

This course introduces the regional approach to the study of human geography and the world's major culture realms. Interpreting the cultural landscape employs the essential concepts in a geographic survey of the world in spatial terms, places and regions, the physical environment, and society and environment interactions. *Field trips may be required.*

*Transfer credit: CSU, UC*

## **GEOG R103 – Introduction to Weather and Climate**

**3 Unit**

*Hours: 3 lecture weekly*

*C-ID: GEOG 130*

An introduction to the Earth's atmosphere, the methods employed in analyzing and understanding weather phenomena are investigated in this course. Global changes in climate patterns, human modification, and impact of weather systems are also examined. *Field trips may be required.*

*Transfer credit: CSU, UC*

## **GEOG R104 – Geography of California**

**3 Units**

*Hours: 3 lecture weekly*

*C-ID: GEOG 140*

This course examines the physical and cultural environments of California's diverse landscapes, including landforms, climate, natural vegetation, natural resources, economic activities and historical settlement in the Golden State. Special emphasis is given to the human landscape of Southern California. *Field trips may be required.*

*Transfer credit: CSU, UC*

## **GEOG R105 – Introduction to Human Geography**

**3 Units**

*Hours: 3 lecture weekly*

*C-ID: GEOG 120*

This course introduces the topical approach to the study of human geography, the characteristics of culture groups, and the distribution and migration of human populations on Earth's surface. Special attention will be given to sustainability and its role in the social construction of spaces and places through the diffusion of religions, languages, food production, geopolitical conflicts and human-environmental interactions. *Field trips may be required.*

*Transfer credit: CSU, UC*

## **GEOG R106 – Introduction to Geographic Information Systems and Techniques**

**3 Units**

*Hours: 2 lecture, 3 lab weekly*

*C-ID: GEOG 155*

This course introduces students to computer-based GIS, Geographic Information Systems, and its applications to spatial data management as a tool to understand the world by describing and explaining the human relationship to the physical environment. Topics include assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Hands-on exposure to spatial analysis and modeling with GIS through the use of computers is provided during the laboratory. *(Same as GIS R106.) Field trips may be required.*

*Transfer credit: CSU*

# **GEOLOGY**

## **CAREER OPPORTUNITIES**

(Most careers require a bachelor's or advanced degrees)

Consulting Geologist	Field Geologist
Engineering Geologist	Laboratory Research Worker
Geological Technician	Petroleum Geologist
Environmental Geologist	Marine Geologist

## **FACULTY**

**Full-Time**

Thomas O'Neil

## **PROGRAM STUDENT LEARNING OUTCOMES**

Upon successful completion of the Geology program students will be able to:

- Apply the scientific method to solve earth science problems such as determining the age of the Earth or determining the origin of the oceans.
- Acquire knowledge and skills sufficient to allow one to pursue advanced study in earth science or find employment in earth science related fields.
- Apply general math skills such as unit conversion, ratios and percentages to solving simple rate problems; evaluate data, produce and interpret tables and graphs; apply the metric system of measurement.
- Demonstrate scientific literacy by defining and explaining the major steps in the scientific method of investigation, specifically, the difference between empirical data, interpretation, testable hypothesis, theory, paradigm, speculation, and pseudo-science.
- Display written competency in the description and analysis of earth science subject matter.
- Identify, research, evaluate and integrate scholarly literature within the discipline.
- List and categorize common natural resources and explain their origin, spatial distribution, appropriate exploration methods, and the resulting products, wastes, and contaminants.
- List, explain, and evaluate global and local earth science hazards such as earthquakes, volcanoes, landslides, and seismic sea waves.
- Recognize applications of earth science in everyday life.

## **COURSE DESCRIPTIONS**

### **GEOL R101 – Physical Geology**

**3 Units**

*Hours: 3 lecture weekly*

*C-ID: GEOL 100*

This course is a survey of the Earth and the processes that shape it. The course offers an overview of earthquakes, volcanism, plate tectonics, mountain building, weathering, erosion, soil, origin of minerals and rocks, and water and energy resources. *Field trips may be required. Course is offered Pass/No Pass (P/NP) at student's option.*

*Transfer credit: CSU, UC*