

Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in French. Class is largely conducted in French.

**FREN 202 French IV** (5)  
5 hours lecture

**Prerequisite:** A minimum grade of 'C' in FREN 201 or four years of high school French

**Transfer acceptability:** CSU; UC

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

**FREN 215 Advanced French** (3)  
3 hours lecture

**Prerequisite:** A minimum grade of 'C' in FREN 202

**Transfer acceptability:** CSU; UC

Continuation of the French sequence. Intensive practice in spoken French; review of essentials of French grammar and composition.

**FREN 296 Special Studies in French** (1, 2, 3)  
1, 2, or 3 hours lecture

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

**Transfer acceptability:** CSU

Improve French language competency and cultural awareness through individualized study, lectures or cultural activities.

## General Studies

Contact the Counseling Center for further information.  
(760) 744-1150, ext. 2179  
Office: SSC-18A

### Associate in Arts Degrees -

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

- General Studies - Emphasis in Arts and Humanities
- General Studies - Emphasis in Science and Mathematics
- General Studies - Emphasis in Social and Behavioral Sciences

## PROGRAMS OF STUDY

### General Studies

This program is designed for students who may not be planning to transfer to a four-year college and who need to explore possibilities before committing themselves to a major program. The program may serve the purposes of students who have been out of school and who need to review and assess their academic skills and interests before deciding on a definite major program. Students planning to transfer to a four-year institution are cautioned that this curriculum may not provide for completion of the lower-division requirements for transfer to a four-year institution.

### A.A. DEGREE MAJOR

#### Select An Emphasis:

#### Emphasis in Arts and Humanities (Select 18 units minimum)

Africana Studies 100, 115, 116  
American Indian Studies 100, 104, 105, 108A, 108B, 135, 145, 150, 153, 154, 207A, 207B  
American Sign Language 100, 101, 110, 205, 206  
American Studies 100, 105  
Anthropology 135, 155  
Arabic 101A, 101B, 102A, 102B, 201A, 201B  
Architecture 120, 121, 155  
Art 100, 102, 104, 105, 165, 166, 167, 168  
Chicano Studies 100, 105, 110, 115, 130, 135, 155

Chinese 101, 101A, 101B, 102, 102A, 102B, 130, 201, 201A, 201B  
Cinema 100, 102, 103, 110, 120, 122  
Dance 100, 101, 102, 105  
English 202, 203, 205, 210, 211, 215, 220, 221, 225, 226, 230, 240, 245, 250, 255, 260, 265, 270, 280, 290  
English as a Second Language 101, 102, 103  
Fashion 130  
Foreign Languages 108A, 108B, 207A, 207B  
French 101, 101A, 101B, 102, 102A, 102B, 201, 202  
German 101, 102, 201, 202  
Graphic Communications 101, 102  
History 105, 106  
Humanities 100, 101  
Interior Design 115, 120  
Italian 101, 102, 201, 201A, 201B  
Japanese 101, 102, 201, 202  
Judaic Studies 106  
Library Technology 154  
Multicultural Studies 120, 122, 124, 157  
Music 100, 101, 102, 103, 170, 171  
Philosophy 100, 101, 102, 103, 105, 110, 115, 120, 135, 136, 250  
Photography 125  
Radio and Television 100  
Reading 110, 120  
Religious Studies 101, 105, 106, 108, 110, 120, 124  
Spanish 101, 101A, 101B, 102, 102A, 102B, 201, 201A, 201B, 202  
Speech 100, 105, 115  
Theatre Arts 100, 140, 141, 150, 157

#### Emphasis in Science and Mathematics (\*Select 18 units minimum)

Anthropology 100, 101  
Astronomy 100, 120  
Biology 100, 101, 102, 105, 106, 110, 114, 118, 130, 131, 135, 185, 200, 201, 215  
Botany 100, 101, 110, 115  
Business 110  
Chemistry 100, 104, 105, 110, 115, 205, 210, 220, 221  
CSIS-Information Technology 105  
Earth Sciences 100, 115  
Engineering 210  
Family and Consumer Sciences 165, 185  
Geography 100, 110, 115, 125  
Geology 100, 110, 120, 125, 150  
Health 165  
Mathematics 56, 60, 100, 105, 106, 110, 115, 120, 130, 135, 140, 141, 200, 205, 206, 245  
Microbiology 200  
Oceanography 100, 101  
Physical Science 100, 101  
Physics 101, 102, 120, 121, 200, 201, 230, 231, 232  
Psychology 205, 210  
Sociology 205  
Zoology 100, 101, 115, 116, 120, 135, 145, 200, 203  
\*Although not listed, related lab courses may be included as part of the 18 unit minimum.

#### Emphasis in Social and Behavioral Sciences (Select 18 units minimum)

Administration of Justice 100  
Africana Studies 100, 101, 102, 110, 120, 125, 126  
Alcohol and Other Drug Studies 150  
American Indian Studies 101, 102, 110, 120, 125, 130, 140, 165  
American Studies 110, 200  
Anthropology 105, 107, 110, 115, 125, 126, 130, 137, 140  
Chicano Studies 101, 102, 120, 125  
Child Development 100, 110, 115  
Communications 100, 105  
Counseling 100, 110, 115, 120

Economics 100, 101, 102, 110, 115  
 English 150  
 Family and Consumer Sciences 101, 105, 150  
 Fashion 132  
 Geography 103, 105  
 Graphic Communications-Multimedia & Web 100  
 History 101, 102, 107, 108, 121, 130, 140, 141, 150, 151, 152  
 Judaic Studies 107  
 Legal Studies 121, 240  
 Multicultural Studies 100, 110, 165, 200  
 Paralegal Studies 121, 240  
 Political Science 100, 101, 102, 110, 125  
 Psychology 100, 105, 110, 115, 120, 125, 130, 145, 150, 225, 235  
 Religious Studies 102, 103, 107, 108  
 Sociology 100, 105, 110, 115, 120, 125, 130, 145, 150, 200  
 Speech 120, 131

## Geography (GEOG)

Contact the Earth, Space, and Aviation Sciences Department for further information.

(760) 744-1150, ext. 2512

Office: NS-110G

### Associate in Arts Degree -

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

- Advanced Geographic Information Systems

### Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Advanced Geographic Information Systems

### Certificates of Proficiency -

Certificate of Proficiency requirements are listed in Section 6 (green pages).

- Geographic Information Systems

## PROGRAM OF STUDY

### Advanced Geographic Information Systems

The Advanced Geographic Information Systems (GIS) Certificate program at Palomar College is designed to provide students with the technical and theoretical knowledge needed to pursue a successful career in growing field of geospatial analysis. Through a combination of lectures, learning modules, case studies, internships, and projects, students will learn to manage, plan, and implement GIS projects.

#### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT\*

Program Requirements		Units
GEOG 120	Intro to Geographic Information Sys/GIS Software	4
GEOG 132	Database Management and Data Acquisition	4
GEOG 134	GIS Applications	2
GEOG 136	Intermediate ArcGIS: GIS Analysis	2
GEOG 138	GIS Internship	2
<b>Specialized Concentration (Select 2 courses)</b>		
GEOG 140	Introduction to Remote Sensing	1
GEOG 141	Transportation Systems Analysis	1
GEOG 142	Environmental Applications of GIS	1
<b>Electives (Select 1 course)</b>		
CSIT 170	Visual Basic I	4
DT 110	Technical Drafting I with AutoCAD	4
<b>TOTAL UNITS</b>		<b>20</b>

\* Advanced Geographic Information Systems A.A. Degree Major or Certificate of Achievement pending approval by the California Community Colleges Chancellor's Office at the time of catalog publication.

## PROGRAM OF STUDY

### Geographic Information Systems

The Geographic Information Systems Certificate program is designed to provide entry-level training for students seeking employment in this fast-growing profession, or to upgrade the skills for those already working in the field of Geographic Information Systems. The program may be completed in one year including summer session.

#### CERTIFICATE OF PROFICIENCY

Program Requirements		Units
GEOG 120	Intro to Geographic Information Sys/GIS Software	4
GEOG 132	Database Management and Data Acquisition	4
GEOG 136	Intermediate ArcGIS: GIS Analysis	2
GEOG 138	GIS Internship	2

#### Electives (Select 1 course)

CSIT 170	Visual Basic I	4
GEOG 134	GIS Applications	2

**TOTAL UNITS**

**14 - 16**

#### COURSE OFFERINGS

#### GEOG 100 Physical Geography (3)

3 hours lecture

**Transfer acceptability:** CSU; UC

A study of earth's physical environment with emphasis on weather, climate, landform, soils, and natural vegetation and the interrelationship between these elements within unique physical landscapes.

#### GEOG 100L Physical Geography Laboratory (1)

3 hours laboratory

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

**Transfer acceptability:** CSU; UC

Laboratory and field investigations in weather elements, climate regions, soils, world ecosystems, and Earth's landform features. Satisfies laboratory requirement in physical sciences.

#### GEOG 103 World Regional Geography (3)

3 hours lecture

**Transfer acceptability:** CSU; UC

Critical survey of the major world regions with specific focus on physical and cultural components, such as development, economics, population and migration, political structure, and natural resources and the physical environment.

#### GEOG 105 Introduction to Human Geography (3)

3 hours lecture

**Transfer acceptability:** CSU; UC

Human elements of geography, including population distribution, general land use patterns, religion, trade and economy, and their correlation with the physical elements. Emphasis on world cultural regions with attention paid to interdependence and globalization.

#### GEOG 110 Meteorology: Weather and Climate (3)

3 hours lecture

**Transfer acceptability:** CSU; UC

Elements of weather including temperature, moisture, air pressure, and circulation of the atmosphere; air masses, storms, and their geographical distribution. Practical applications in the use of weather instruments, and the reading and interpretation of weather maps and climatological data.

#### GEOG 115 Natural Disasters and Environmental Hazards (3)

3 hours lecture

**Note:** Cross listed as ES 115

**Transfer acceptability:** CSU; UC

Examination and analysis of natural disasters and environmental hazards including earthquakes, tsunamis, volcanic activity, hurricanes, flooding, air and water pollution, and global climate change.