FREN 101  French I  
5 hours lecture - 1 hour laboratory
Transfer acceptability: CSU; UC
This course is the first semester of French. This elementary level course is a study of the French language and French-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 French.

FREN 102  French II  
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in FREN 101 or two years of high school French
Transfer acceptability: CSU; UC
This course is the second semester of French. This elementary level course is a study of the French language and French-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.

FREN 140  Basic French Pronunciation  
1 hour lecture
Transfer acceptability: CSU
Practice in the basics of French pronunciation. Emphasis on the correct use of intonation, stress, and rhythm.

FREN 197  French Topics  
(5 - 4)  
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.
Transfer acceptability: CSU; UC – Credit determined by UC upon review of course syllabus.
Topics in French. See Class Schedule for specific topic offered. Course title will designate subject covered.

FREN 201  French III  
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in FREN 102 or three years of high school French
Transfer acceptability: CSU; UC
This course is the third semester of French. This intermediate level course is a study of the French language and French-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 French. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in French.

FREN 202  French IV  
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 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 hours lecture
Prerequisite: A minimum grade of ‘C’ in FREN 202
Transfer acceptability: CSU; UC
An intermediate-level study of the French language and French-speaking cultures. Focus is on developing oral and written proficiency within a cultural context.
**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
- Botany 100, 101
- Business 110
- Chemistry 100, 104, 105, 110, 115, 205, 210, 220, 221
- CSIT-Information Technology 105
- Earth Sciences 100, 115
- Engineering 210
- 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
- Nutrition 165, 185
- Oceanography 100
- Physical Science 100, 101
- Physics 101, 102, 120, 121, 200, 201, 230, 231, 232
- Psychology 205, 210
- Sociology 205
- Zoology 100, 101, 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, 120, 125, 126
- Alcohol and Other Drug Studies 150
- American Indian Studies 101, 102, 110, 115, 120, 125, 130, 140, 165
- American Studies 104, 110, 200
- Anthropology 105, 107, 110, 115, 125, 126, 130, 137, 140
- Business 136
- Chicano Studies 101, 102, 125
- Child Development 100, 110, 115
- Communications 100, 105
- Counseling 100, 110, 115, 120, 148
- Economics 100, 101, 102, 110, 115, 120, 125
- English 150
- Family and Consumer Sciences 101, 105, 136, 150
- Fashion 132
- Geography 103, 105
- Graphic Communications-Multimedia & Web 100
- Health 100
- History 101, 102, 107, 108, 121, 130, 140, 141, 150, 151
- Juristic Studies 107
- Legal Studies 121, 240
- Multicultural Studies 100, 110, 125, 165, 200
- Nutrition 120
- Political Science 100, 101, 102, 110
- Psychology 100, 105, 110, 115, 120, 125 130, 145, 150, 225, 235
- Religious Studies 102, 107, 108
- Sociology 100, 105, 110, 115, 125, 130, 135, 145, 150, 165, 200
- Speech 120, 131

*Military Service*

*Palomar College will accept a minimum of 3 units of ACE recommended credit for completion of Basic/Recruit Training. Refer to the Associate Degree District Requirements, under Health and Fitness or see a Counselor for more information.

**Geography (GEOG)**

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

(760) 744-1150, ext. 2512
Office: NS-110G

**Associate in Science Degree**

AS Degree requirements are listed in Section 6 (green pages).
- Advanced Geographic Information Systems

**Associate in Arts for Transfer**

AA-T, IGETC, and CSUGE requirements are listed in Section 6 (green pages).
- Geography

**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).
- Environmental Studies
- Unmanned Aircraft Systems (UAS) Technician
- Geographic Information Systems

**PROGRAMS 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.S. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT**

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 120</td>
<td>Digital Earth: Introduction to Geographic Information Systems 4</td>
</tr>
<tr>
<td>GEOG 132</td>
<td>Database Management and Data Acquisition 4</td>
</tr>
<tr>
<td>GEOG 134</td>
<td>GIS Applications and Programming 2</td>
</tr>
<tr>
<td>GEOG 136</td>
<td>Intermediate ArcGIS: GIS Analysis 2</td>
</tr>
<tr>
<td>GEOG 138</td>
<td>GIS Internship 2</td>
</tr>
<tr>
<td>GEOG 139</td>
<td>GIS Specialist Internship 2</td>
</tr>
</tbody>
</table>

**Specialized concentration (Select 2 courses)**

- GEOG 140 | Introduction to Remote Sensing 1 |
- GEOG 141 | Transportation Systems Analysis 1 |
- GEOG 142 | Environmental Applications of GIS 1 |
- GEOG 143 | Introduction to Cartography and Computer Mapping 1 |
- GEOG 144 | Internet Mapping and Application Development 3 |
- GEOG 150 | Geographic Information Science and Spatial Reasoning 3 |

**Electives (Select 1 course)**

- CSIT 150 | Introduction to SQL 3 |
- CSWB 120 | JavaScript and jQuery 3 |
- DT/ENGR 110 | Technical Drafting I with AutoCAD 3 |

**TOTAL UNITS** 19 – 23

**Associate in Arts in Geography for Transfer**

The Associate in Arts in Geography for Transfer provides students with a comprehensive study of the earth from a spatial perspective. The field of geography includes several subfields. Physical geography is the study of natural phenomena such as weather, climate, geological formations, and the distribution of plants and animals. Human geography is the study of the spatial distribution of culture, language, religion, population, economics, and politics. Regional geography incorporates in-depth studies of specific geographic areas of the world. Cartography and Geographic Information Systems are analytical tools used in all subfields of geography.

See Catalog addendum at http://www.palomar.edu/catalog