Program
BA in Geography
Option in:
- General Geography
- Planning and Development of the Rural Environment
Certificate in Geographic Information Systems (GIS) Technology
Minor in Geography
Minor in Planning and Development
MA in Geography
Option in Geography
Option in Rural and Town Planning

The geographer and planner study people, the environment, and the ways they affect one another. They analyze human activities on the land and how they influence the natural environment. Geography forms an interdisciplinary bridge between the physical and human worlds. Thus, these professionals are concerned with relating the natural and human-made environment to changing patterns of land use. To do this effectively, they must understand and integrate multidisciplinary concepts to solve real-world problems.

The Department of Geography and Planning has designed programs to meet the needs of students who are seeking: 1) to develop a broad liberal arts education focusing on global literacy of humans and their environments; 2) to become professionals in the field of rural and community planning, environmental restoration, and geographic information systems; 3) to prepare for a career in business, government, or teaching.

The minor in geography is of value to students majoring in the sciences, recreation, economics, business, geology, social sciences, and to those seeking teaching credentials. The minor in planning is of value to majors in public administration, political science, business, engineering, economics, and recreation.

Faculty and Facilities
The faculty and staff are strongly committed to involving students in the rapidly evolving technical innovations in computer applications in geography, geographic information systems, computer cartography and production techniques, and remote sensing. The computer graphics laboratory has several microcomputer work stations, and timesharing connections to the university computers. Excellence in writing and communication is emphasized, and students are given ample guidance to sharpen these skills. The faculty is especially interested and skilled in preparing students in the practical and applied areas of geography and planning: resource management, environmental assessment, location analysis, remote sensing, general plan preparation, regional development, landscape ecology, cartography, and Geographic Information Systems (GIS).

Lecture courses are often supplemented with field trips and community research experiences, internships, work experience, community service programs, and public service programs supplement the experiences on campus. The diverse geography of the Northern California region provides a valuable laboratory in which to learn geographic concepts and processes, and to practice field skills.

Career Outlook
Geographers and planners may choose from several skill subjects and many general themes to prepare themselves for employment after graduation in both the public and private sector. One of the growth areas for employment in the country and Northern California is that of rural, environmental, and community planning. Many graduates in geography accept employment in planning and resource management positions. Opportunities also exist with private industry, and state and federal governments in such areas as geographic information systems, water resources, computer cartography, global studies, transportation studies, land management, recreation, parks, and tourism.

Geographers and planners are especially equipped to apply their skills to the analysis of land use and economic activities, and their environmental impacts. They understand the broad and synthesizing point of view and are able to formulate solutions to comprehensive problems in business and government. The growth industries of ecological restoration, recreation, and economic development are finding geographers have the knowledge and skills to contribute at local, national, and international levels.

Geographers and planners are also finding positions in teaching. Training at the master’s level has prepared a number of our graduates to teach at different levels ranging from elementary schools to universities.
THE BACHELOR OF ARTS
IN GEOGRAPHY

Total Course Requirements for the Bachelor's Degree: 120 units
See “Requirements for the Bachelor's Degree” in The University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

The department has prepared a suggested Four Year Advising Plan to help students meet all graduation requirements within four years. Please request a plan from your major adviser or view it and other current advising information on the CSU, Chico Web.

General Education Requirements: 48 units
See “General Education Requirements” in The University Catalog and The Class Schedule for the most current information on General Education Requirements and course offerings. The course requirements marked below with an asterisk (*) may also be applied toward General Education.

Cultural Diversity Course Requirements: 6 units
See “Cultural Diversity” in The University Catalog. Most courses used to satisfy these requirements may also apply to General Education.

American Institutions Requirement: 6 units
See the “American Institutions Requirement” under “Bachelor's Degree Requirements.” This requirement is normally fulfilled by completing HIST 050 and POLS 053. Courses used to satisfy this requirement do not apply to General Education.

Literacy Requirement:
See “Mathematics and Writing Requirements” in The University Catalog. Writing proficiency in the major is a graduation requirement and may be demonstrated through satisfactory completion of a course in your major which has been designated as the Writing Proficiency (WP) course for the semester in which you take the course. Students who earn below a C- are required to repeat the course and earn a C- or better to receive WP credit. See The Class Schedule for the designated WP courses for each semester. You must pass ENGL 001 (or its equivalent) with a C- or better before you may register for a WP course.

Course Requirements for the Major: 36-54 units
The following courses, or their approved transfer equivalents, are required of all candidates for this degree. Additional required courses, dependent upon a selected option or advising pattern, are outlined following the degree core program requirements.

DEGREE CORE PROGRAM: 18 units

6 courses required:
- GEOG 001 Physical Geography 3.0 FS
- GEOG 002 Human Geography 3.0 FS NW
- GEOG 108 Map & Air Photo Interpretation 3.0 FS
- GEOG 109 Geography Research and Writing 3.0 FS
- GEOG 110 Computer Applications Geography 3.0 FS
- GEOG 290 Seminar in Geography 3.0 FS

Prerequisites: ENGL 001 (or its equivalent) with a grade of C- or higher

Major Option Course Requirements: 18-36 units
The following courses, or their approved transfer equivalents, are required dependent upon the option chosen. Students must select one of the following options for completion of the major course requirements.

THE OPTION IN GENERAL GEOGRAPHY: 18-30 units
Option Core: 6 units
1 course selected from:
- GEOG 101 Global Economic Geography 3.0 FS NW
- GEOG 104 Environmental Issues 3.0 FS *

1 course selected from:
- GEOG 103 Geography and World Affairs 3.0 FS NW
- or any upper-division regional geography course (GEOG 151-170).

Advising Pattern Course Requirements: 12-24 units
The following courses, or their approved transfer equivalents, are required depending upon the advising pattern chosen. Students must select one of the following advising patterns for completion of the major course requirements.

Select one of the following three advising patterns to complete requirements for the Option in General Geography.

Cartography/Geographical Information System Pattern: 24 units

3 courses required:
- GEOG 113 Introductory Cartography 3.0 FA
- GEOG 119 Intro to Geographical Info Syst 3.0 FS
- GEOG 123 Advanced Cartography 3.0 SP

3 courses selected from:
- GEOG 115 Spatial Analysis 3.0 FA
- GEOG 110 or MATH 005 or equivalent.
- GEOG 214 Aerial Photo Interpretation 3.0 SP
- GEOG 216 Locational Analysis 3.0 Inq
- GEOG 217 Field Techniques Prerequisites: Faculty permission.
- GEOG 218 Remote Sensing 3.0 SP
- GEOG 110 or equivalent.
- GEOG 219 Advanced Geo Info Systems Prerequisites: GEOG 115, GEOG 119.

6 units selected from:
- CDES 122 Computer Graphics 3.0 FS
- CDES 186A Digital Pre-publishing 3.0 FS
- MFGT 124 Solids Modeling for Manufacture 3.0 FA
- MINS 118 Database Application Development 3.0 FS
- Prerequisites: BIS 110, MINS 018.

Human Geography Pattern: 12 units

9-12 units selected from:
- GEOG 135 Geography and Tourism 3.0 FA
- GEOG 139 American Cultural Landscapes 3.0 SP
- GEOG 152 The United States 3.0 FA *
- GEOG 153 Canada: Land and People 3.0 Inq
- GEOG 154 Mexico: Land and People 3.0 FA NW
- GEOG 154B Central Amer/Carib: Land/People 3.0 Inq NW
- GEOG 155 South America 3.0 Inq
- GEOG 160 Euro Asia 3.0 Inq
- GEOG 165 Former Soviet Union 3.0 SP
- GEOG 170 Pacific Rim Regions 3.0 FA
- GEOG 178 Australia and South Pacific 3.0 SP
- GEOG 205 Nature and Society 3.0 SP

Prerequisites: GEOG 001 and GEOG 002 or equivalents.

GEOG 216 Field Techniques Prerequisites: Faculty permission.

GEOG 230 Geodemography 3.0 SP

Prerequisites: Faculty permission.

GEOG 235 Historical Geography North Amer Prerequisites: Faculty permission.

This course is the same as AMST 235 which may be substituted.

GEOG 250A Field Studies in Geography 1.0 Inq

Prerequisites: Faculty permission.

GEOG 250B Field Studies in Geography 2.0 Inq

Prerequisites: Faculty permission.

GEOG 250C Field Studies in Geography 3.0 Inq

Prerequisites: Faculty permission.

0-3 units selected from:
Any upper-division geography class in the cartography/GIS or environmental paterns.

Students choosing this pattern are encouraged to complete a minor in a related discipline after consulting with their adviser.
Environmental Geography Pattern: 24 units

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOG 201</td>
<td>Environmental Geomorphology</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: GEOG 100 or GEOG 104 or equivalent.</td>
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</tr>
<tr>
<td>GEOG 203</td>
<td>Climatology</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 100 or GEOG 104 or equivalent.</td>
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<tr>
<td>GEOG 204</td>
<td>Geomorphology</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: GEOG 100 or introductory biology course or equivalent.</td>
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</table>

1 course selected from:

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<th>Course Code</th>
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<th>Units</th>
<th>Semester</th>
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2 courses selected from:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOG 113</td>
<td>Introductory Cartography</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: Network literacy via CSCI 010, SOSC 010, or GEOG 110.</td>
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<tr>
<td>GEOG 115</td>
<td>Spatial Analysis</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: GEOG 110 or GEOG 114 or equivalent.</td>
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<tr>
<td>GEOG 119</td>
<td>Intro to Geographical Info Syst</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>Prerequisites: GEOG 110 or equivalent.</td>
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</tr>
<tr>
<td>GEOG 213</td>
<td>Advanced Cartography</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 106, GEOG 113.</td>
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</tr>
<tr>
<td>GEOG 214</td>
<td>Aerial Photo Interpretation</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 106 or equivalent.</td>
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<tr>
<td>GEOG 217</td>
<td>Field Techniques</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: Faculty permission.</td>
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<tr>
<td>GEOG 218</td>
<td>Remote Sensing</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 106 and GEOG 115 or equivalents.</td>
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<tr>
<td>GEOG 219</td>
<td>Advanced Geo Inf Systems</td>
<td>3.0</td>
<td>SP</td>
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<tr>
<td>Prerequisites: GEOG 115, GEOG 119.</td>
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</table>

Students choosing this pattern are encouraged to take courses from related disciplines such as biology, geosciences, and plant and soil sciences.

THE OPTION IN THE PLANNING AND DEVELOPMENT OF THE RURAL ENVIRONMENT: 36 units

Option Core: 24 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOG 101</td>
<td>Global Economic Geography</td>
<td>3.0</td>
<td>FS NW</td>
</tr>
<tr>
<td>GEOG 104</td>
<td>Environmental Issues</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Spatial Analysis</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: GEOG 110 or MATH 005 or equivalent.</td>
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<tr>
<td>GEOG 120</td>
<td>Community and Rural Planning</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>GEOG 223</td>
<td>Planning Methods</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 115, GEOG 120.</td>
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<tr>
<td>GEOG 224</td>
<td>Planning Studio</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 109 for majors, GEOG 223 or equivalent.</td>
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<tr>
<td>GEOG 225</td>
<td>Community/Regional Development</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>GEOG 227</td>
<td>Environmental Impact Analysis</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>Prerequisites: GEOG 120 or equivalent.</td>
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</table>

Planning Support Courses: 9 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOG 119</td>
<td>Intro to Geographical Info Syst</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: Network literacy via CSCI 010, SOSC 010, or GEOG 110.</td>
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</tr>
<tr>
<td>GEOG 217</td>
<td>Field Techniques</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: Faculty permission.</td>
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</tr>
<tr>
<td>GEOG 218</td>
<td>Remote Sensing</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 106 and GEOG 115 or equivalents.</td>
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<tr>
<td>GEOG 219</td>
<td>Advanced Geo Inf Systems</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 115, GEOG 119.</td>
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<tr>
<td>GEOG 226</td>
<td>Water Resource Development</td>
<td>3.0</td>
<td>FA</td>
</tr>
<tr>
<td>Prerequisites: GEOG 101 or equivalent.</td>
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<tr>
<td>GEOG 228</td>
<td>Site Planning</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 108, GEOG 120 or equivalent.</td>
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<tr>
<td>GEOG 236</td>
<td>Transportation Planning</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: GEOG 101, GEOG 120 or faculty permission.</td>
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<tr>
<td>GEOG 289</td>
<td>Geography Internship</td>
<td>1.0-3.0</td>
<td>FS</td>
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</table>

Outside Electives: 3 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOG 227</td>
<td>Environmental Impact Analysis</td>
<td>3.0</td>
<td>FA</td>
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</tbody>
</table>

Electives Requirement:
Any planning-related courses in fields outside of geography to be chosen with the prior approval of the adviser for the Option in the Planning and Development of the Rural Environment.

Electives Requirement:
To complete the total units required for the bachelor's degree, select additional elective courses from the total university offerings. You should consult with an adviser regarding the selection of courses which will provide breadth to your university experience and apply to a supportive second major or minor.

Grading Requirement:
All courses taken to fulfill major course requirements must be taken for a letter grade, except those courses specified by the department as Credit/No Credit grading only.

Advising Requirement:
Advising is mandatory for all majors in this degree program. Consult your undergraduate adviser for specific information. The Geography major requires advising and approval of the student's selected program each semester.

Honors in the Major
Honors in the Major is a program of independent work in your major. It involves 6 units of honors course work completed over two semesters. Your Honors work will be recognized at your graduation, on your permanent transcript, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair. Most importantly, however, the Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the university for submission in professional journals, presentation at conferences, or competition in shows; such experience is valuable for graduate school and later professional life.

Some common features of Honors in the Major program are:
1. You must take 6 units of Honors in the Major course work. At least 3 of these 6 units are independent study (299H) as specified by your department. You must complete each class with a minimum grade of B.
2. You must have completed 9 units of upper-division course work or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements carefully, as there may be specific courses that must be included in these units.
3. Your cumulative GPA should be at least 3.5 or within the top 5 percent of majors in your department.
4. Your GPA in your major should be at least 3.5 or within the top 5 percent of majors in your department.
5. Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the 6 units of course work over the two semesters of their senior year.
6. Your honors work culminates with a public presentation of your Honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major adviser for further information.

Geography and Economics Double Major
Students may take two geography and two economics courses from the following list. All 12 units will count toward both majors (geography courses will count toward 100-level electives in the economics major).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>ECON 160</td>
<td>Urban Problems</td>
<td>3.0</td>
<td>FS</td>
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<tr>
<td>Prerequisites: ECON 003.</td>
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<tr>
<td>ECON 165</td>
<td>Environmental Economics</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>ECON 175</td>
<td>Developing Countries</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>ECON 176</td>
<td>Economics of the Pacific Rim</td>
<td>3.0</td>
<td>FS NW</td>
</tr>
<tr>
<td>Prerequisites: ECON 001 or ECON 002 or faculty permission.</td>
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<tr>
<td>ECON 262</td>
<td>Urban-Regional Economics</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>Prerequisites: ECON 101.</td>
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<tr>
<td>ECON 265</td>
<td>Economics of Energy</td>
<td>3.0</td>
<td>SP</td>
</tr>
<tr>
<td>Prerequisites: ECON 101.</td>
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</tr>
<tr>
<td>GEOG 101</td>
<td>Global Economic Geography</td>
<td>3.0</td>
<td>FS NW</td>
</tr>
<tr>
<td>GEOG 104</td>
<td>Environmental Issues</td>
<td>3.0</td>
<td>FS</td>
</tr>
<tr>
<td>GEOG 120</td>
<td>Community and Rural Planning</td>
<td>3.0</td>
<td>FA</td>
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<tr>
<td>Prerequisites: GEOG 100 or equivalent.</td>
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</table>
THE MINOR IN GEOGRAPHY
Course Requirements for the Minor: 21 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

3 courses required:
- GEOG 001 Physical Geography 3.0 FS
- GEOG 002 Human Geography 3.0 FS *NW
- GEOG 108 Map & Air Photo Interpretation 3.0 FS

2 courses selected from:
- GEOG 101 Global Economic Geography 3.0 FS *NW
- GEOG 103 Geography and World Affairs 3.0 FS *NW
- GEOG 104 Environmental Issues 3.0 FS *

6 units selected from:
Any upper-division Geography (GEOG) course.

THE MINOR IN PLANNING AND DEVELOPMENT
Course Requirements for the Minor: 21 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

5 courses required:
- GEOG 001 Physical Geography 3.0 FS
- GEOG 002 Human Geography 3.0 FS *NW
- GEOG 120 Community and Rural Planning 3.0 FA
- GEOG 224 Planning Studio 3.0 SP
- Prerequisites: GEOG 108 for majors or GEOG 223 or equivalent.

GEOG 227 Environmental Impact Analysis 3.0 FS
Prerequisites: GEOG 120 or equivalent.

6 units selected from:
Planning-related courses approved in advance by the program adviser.

CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEM (GIS) TECHNOLOGY
Course Requirements for the Certificate: 21 units

The following courses, or their approved transfer equivalents, are required of all candidates for this certificate.

A grade point average of 2.5 must be earned for courses required for the certificate. A grade of at least “C” must be earned in each course of the certificate program.

7 courses required:
- GEOG 108 Map & Air Photo Interpretation 3.0 FS
- GEOG 110 Computer Applications Geography 3.0 FS
- Prerequisites: CSCI 010 or SOSC 010 is recommended.
- GEOG 113 Intro to Cartography 3.0 FA
- Prerequisites: Network literacy via CSCI 010, SOSC 010, or GEOG 110.
- GEOG 115 Spatial Analysis 3.0 FA
- Prerequisites: GEOG 110 or MATH 005 or equivalent.
- GEOG 119 Intro to Geographic Information Systems 3.0 FS
- Prerequisites: GEOG 110 or equivalent.
- GEOG 213 Advanced Cartography 3.0 SP
- Prerequisites: GEOG 108, GEOG 113.
- GEOG 219 Advanced Geographic Information Systems 3.0 SP
- Prerequisites: GEOG 115, GEOG 119.

THE MASTER OF ARTS IN GEOGRAPHY
Course Requirements for the Master’s Degree: 30 units

Continuous enrollment is required. A maximum of 6 semester units of transfer credit may be applied toward the degree.

Graduate Time Limit: All requirements for the degree are to be completed within five years of the end of the semester of enrollment in the oldest course applied toward the degree. See “Graduate Education” in The University Catalog for complete details on general degree requirements.

Geography master’s degree students are required to maintain “normal progress” toward the degree. “Normal progress” is defined as advancing to classified status by the end of the first year in the program and advancing to candidacy by the end of the second year in the program. At the end of each academic year, the department’s Graduate Studies Committee will evaluate student progress and assign normal status, probationary status, or dismiss the student from the program.

Prerequisites for Admission to Conditionally Classified Status
1. Satisfactory grade point average as specified in “Admission to Master’s Degree Programs” in The University Catalog. Students with less than a 3.0 GPA are normally not admitted.
2. Approval by the department and the Office of Graduate Programs.
3. An acceptable baccalaureate from an accredited institution, or an equivalent approved by the Office of Graduate Programs. Appropriate academic preparation for the Option in Geography is a major or minor in geography; appropriate academic preparation for the Option in Rural and Town Planning is a major or minor in planning. All students who have not completed the transfer equivalent of GEOG 108, Map and Aerial Photo Interpretation, and GEOG 115, Spatial Analysis, must take these courses in addition to the 30 units required for the degree.
4. Two letters of recommendation and a Statement of Purpose. The Statement of Purpose must designate an area of specialization and indicate which faculty members’ interests best match the student’s interests. Consult the Graduate Coordinator for specifics.
5. Completion of the Graduate Record Examination (GRE). Applicants with a GRE Aptitude Test score (combined verbal and quantitative) of less than 1000 are normally not admitted.
6. For the Option in Geography only: Students without an undergraduate major or minor in geography must complete the following 15 units of qualifying course work described below. Students holding acceptable degrees but lacking specific courses are required to complete qualifying course work. Qualifying course work shall not be counted as units toward the master’s degree.
7. For the Option in Rural and Town Planning only: Students without an undergraduate major or minor in planning must complete the following 15 units of qualifying course work with a minimum grade of B in each course. All qualifying courses must be completed before a student will be considered for classified status. None of these units will be counted toward the master’s degree. Nine of these units must be completed before taking GEOG 300. The preparatory courses include:
   - 6 units of Physical Geography at the upper-division level.
   - 6 units of Human Geography.
   - 3 units of Techniques in Geography at the upper-division level.
   - The Graduate Coordinator will determine the equivalency of undergraduate courses.

For Option in Rural and Town Planning:
Students without an undergraduate major or minor in planning must complete the following 15 units of qualifying course work with a minimum grade of B in each course. All qualifying courses must be completed before a student will be considered for classified status. None of these units will be counted toward the master’s degree. Nine of these units must be completed before taking GEOG 300. The preparatory courses include:
- GEOG 101, Global Economic Geography;
- GEOG 108, Map and Aerial Photo Interpretation or equivalent;
- GEOG 120, Community and Rural Planning;
- GEOG 223, Planning Methods;
- GEOG 227, Environmental Impact Analysis.

The Graduate Coordinator will determine the equivalency of undergraduate courses.
Project may include cartographic or GIS work, field study of an environment, the conclusions and importance of the work.

Review of the pertinent literature, a discussion of the methodology used, a historical or theoretical aspect of planning notions or practice. A planning thesis must rest on a thorough review of pertinent literature and on the analysis and presentation of data from primary and/or secondary sources. It must include a description of the study's results and a discussion of the major conclusions and importance of the work to the field and practice of planning.

Requirements for the MA in Geography with an Option in Geography:

Completion of all requirements as established by the departmental graduate committee and the Office of Graduate Programs, to include:

1. Completion of an approved program consisting of 30 units of 200/300-level course work as follows:
   (a) The following 24 units of course work:
    GEOG 224 Planning Studio 3.0 SP
    Prerequisites: GEOG 109 for majors; GEOG 223 or equivalent.
    GEOG 225 Community/Regional Development 3.0 FA
    GEOG 228 Site Planning 3.0 SP
    Prerequisites: GEOG 108; GEOG 120; or equivalent.
    GEOG 300 Advances in Geography & Planning 3.0 FA
    Prerequisites: Faculty permission.
    GEOG 301 Research Models in Geog & Plan 3.0 SP
    Prerequisites: GEOG 300.
    GEOG 307 Environmental Planning 3.0 SP
    Prerequisites: GEOG 301, 223, and faculty permission.
    POLS 268 Planning Law 3.0 SP
    POLS 367 Sem: Administration/Planning 3.0 FA
   (b) At least 18 units required for the degree in 300-level courses.
   (c) Successful completion of three of the following seminars:
    GEOG 302 Seminar in Physical Geography 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 303 Seminar in Human Geography 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 305 Seminar in Applied Geography 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 306 Seminar in Special Topics 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 307 Environmental Planning 3.0 SP
    Prerequisites: BIOL 134, GEOG 227, and faculty permission.
   (d) Not more than 6 semester units of transfer and/or Open University credit (correspondence courses and extension course work are not acceptable).
   (e) At least 1 unit, but no more than 6 units of GEOG 399, Master's Study, if completing a thesis or project. No more than 6 units combined of GEOG 389, GEOG 398, and GEOG 399 may be included in the program.

2. Completion of an approved program of 30 units of 200/300-level course work as follows:
   (a) At least 24 units in geography. None of these 24 units may be from GEOG 389, GEOG 398, or GEOG 399.
   (b) At least 18 of the units required for the degree in 300-level courses.
   (c) Successful completion of the following courses:
    GEOG 300 Advances in Geography & Planning 3.0 FA
    Prerequisites: Faculty permission.
    GEOG 301 Research Models in Geog & Plan 3.0 SP
    Prerequisites: GEOG 300.
   (d) Successful completion of three of the following seminars:
    GEOG 302 Seminar in Physical Geography 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 303 Seminar in Human Geography 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 305 Seminar in Applied Geography 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 306 Seminar in Special Topics 3.0 Inq
    Prerequisites: Faculty permission.
    GEOG 307 Environmental Planning 3.0 SP
    Prerequisites: BIOL 134, GEOG 227, and faculty permission.
   (e) Not more than 6 semester units of transfer and/or Open University credit (correspondence courses and extension course work are not acceptable).
   (f) At least 1 unit, but no more than 6 units, of GEOG 399 Master’s Study. No more than 6 units combined of GEOG 389, GEOG 398, and GEOG 399 may be included in the program.

3. Completion of a thesis proposal, a project proposal, or proposal for the analysis and presentation of data from primary and/or secondary sources. It must include a description of the study’s results and a discussion of the major conclusions and importance of the work to the field and practice of planning.

Graduate Literacy Requirement:

Writing proficiency is a graduation requirement.

Geography master's degree students will demonstrate their writing competence by successfully completing GEOG 300. In addition, no thesis or project will be accepted that does not demonstrate a high level of writing proficiency. Errors in structure, grammar, syntax, and spelling are not acceptable and will result in the rejection of the work.

Geography master's degree students will further demonstrate writing proficiency by successfully completing a specified writing assignment in each graduate seminar. A copy of this work will be placed in the student's department file.
Graduate Grading Requirements:
All courses in the approved program plan (with the exceptions of GEOG 389, GEOG 398, and GEOG 399) must be taken for a letter grade. A minimum grade of B is required for any course used as part of the approved program. In addition to the 3.0 GPA required in all program course work, students must maintain a 3.0 GPA in all course work taken subsequent to admission to conditionally classified status. While grading standards are determined by individual programs and instructors, it is also the policy of the university that unsatisfactory grades may be given when work fails to reflect achievement of the high standards, including high writing standards, expected of students pursuing graduate study.

Graduate Advising Requirement:
Advising is mandatory each semester for all graduate students. Conditionally classified and classified students must consult with the Graduate Coordinator; Candidates must consult with the Graduate Coordinator and the committee chair.

The Faculty
Scott Brady, 2000, Assist Professor, PhD, LA State U.
Jacquelyn Chase, 2000, Assist Professor, PhD, UCLA.
William F. Collins, 1972, Professor, PhD, Univ Cincinnati.
Dean Fairbanks, 2003, Assist Professor, PhD, Univ of Pretoria.
Guy King, 1988, Ed Utd.
Paul Melcon, 1985, Assoc Professor, PhD, U WI.
Charles Nelson, 1998, Director, Staff-12 Month-B, MA, CSU Chico.
Susan E. Place, 1988, Associate Dean, Professor, PhD, U CLA.
Eugenie L. Rovai, 1991, Chair, Assoc Professor, PhD, Clark Univ.
Mark Stemen, 2001, Professor, Professor, U Iowa.
Emeritus Faculty
Bruce E. Bechtol, 1968, Professor Emeritus, PhD, U Oregon.
Richard Halmans, 1974, Professor Emeritus, PhD, UCL A.
Donald Holtgrieve, 1988, Professor Emeritus, PhD, U Oregon.
Ed Myles, 1972, Professor Emeritus, PhD, Mch St U.
Gary Peters, 1999, Professor Emeritus, PhD, Penn St U.
Jerry R. Williams, 1969, Professor Emeritus, PhD, U Florida.

Geography Course Offerings
Please see the section on “Course Description Symbols and Terms” in The University Catalog for an explanation of course description terminology and symbols, the course numbering system, and course credit units. All courses are lecture and discussion and employ letter grading unless otherwise stated. Some prerequisites may be waived with faculty permission. Many syllabi are available on the Chico Web.

GEOG 001 Physical Geography
3.0 Fa/Spr
A systematic survey of the physical Earth and the natural processes that influence humankind. The course provides an introduction to the use of maps and other tools employed in the analysis of patterns of weather, climate, soils, vegetation, and animals. CAN GEOG 2.

GEOG 002 Human Geography
3.0 Fa/Spr
Survey of human populations and activities, with an emphasis upon how social, economic, political, and religious institutions influence interrelationships with the physical environment. This is an approved General Education course. This is an approved Non-Western Course. CAN GEOG 4.

GEOG 005 California Cultural Landscapes
3.0 Fa/Spr
Broad overview of spatial and temporal changes in the California landscape resulting from the interaction of various cultural groups with their environment. This is an approved General Education course. This is an approved Ethnic Course.

GEOG 006 The American West
3.0 Fa/Spr
The historical cultural geography of the American West, emphasizing how various cultural groups have each made a unique imprint on the western landscape. This is an approved General Education course.

GEOG 098 Special Topics in Geography
1.0-3.0 Fa/Spr
This course is for special topics offered to the GPA B-C for 1.0 to 3.0 units respectively. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See The Class Schedule for the specific topic being offered.

GEOG 101 Global Economic Geography
3.0 Fa/Spr
A systematic survey of economic activities. Analysis of resource exploitation and use, including agriculture, extractive activities, industry, commerce, and service functions. Recommended for business and liberal arts majors. This is an approved Non-Western Course.

GEOG 103 Geography and World Affairs
3.0 Fa/Spr
Geography in the news. Analysis of current world conflicts and problem areas, with an emphasis upon examination of social, economic, political, and environmental realities. This is an approved General Education course. This is an approved Non-Western Course.

GEOG 104 Environmental Issues
3.0 Fa/Spr
Geography analysis of humanity’s interaction with the environment. Examines natural and human systems, resources, population, energy, and pollution. Develops an appreciation of the beauty, balance, and complexity of natural systems and human success in attaining harmony with them. Enhances awareness of individual’s role and with the environment. This is an approved General Education course.

GEOG 106 Geographies of Disaster
3.0 Fa/Spr
This course provides a broad global overview of disasters resulting from natural or technological hazards. Disasters contribute to maim and kill, and property losses due to disaster have continued to increase. This course emphasizes the spatial and temporal distribution of hazards, the human impact of disaster, roles played by technology and society in creating or worsening risky situations, and policy options for disaster preparation and loss reduction. This is an approved General Education course.

GEOG 108 Map and Air Photo Interpretation
3.0 Fa/Spr
Methods and techniques of aerial photo and map interpretation, stressing applications to environmental study and land use surveys. This is a basic tools course for students majoring in geography, the natural and earth sciences, and in such applied fields as planning and recreation. 2.0 hours discussion, 2.0 hours activity.

GEOG 109 Geographical Research and Writing
3.0 Fa/Spr
Examination and evaluation of library research materials pertinent to geography. Practice in analysis and writing of geographical reports. Successful completion required for all geography majors before enrolling in WP course to meet writing requirement.

GEOG 110 Computer Applications
3.0 Fa/Spr
Prerequisites: CSCI 010 or SO SC 010 is recommended. Introduction to computers as a tool of geographic analysis. Discussion of mainframe and personal computer hardware and software. Labeled projects on CYBER and PC systems. 6.0 hours activity. Special fee required; see The Class Schedule.

GEOG 113 Introductory Cartography
3.0 Fa
Prerequisites: Network literacy via CSCI 010, SO SC 010, or GEOG 110. Introduction to the compilation, design, and production of thematic maps. Emphasis is on maps as communication devices. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 115 Spatial Analysis
3.0 Fa
Prerequisites: GEOG 110 or MATH 025 or equivalent. This course entails application of statistical methods to geographic problems. Students will conduct quantitative analysis of spatial data. Formerly GEOG 215.

GEOG 116H Crossing Boundaries: Gender and Modernization
3.0 Spring
Prerequisites: Junior status at the end of semester in which course is taken and current enrollment in the Honors Program. An overview of contemporary human geography and some aspects of women’s studies, emphasizing the importance of space, movement, place, environment, and family. Primary texts such as novels, memoirs, and films will be used to explore the perspectives of a variety of culture groups. This is an approved General Education course. This is an approved Ethnic Course. This course is the same as MCGS 116H which may be substituted.

GEOG 119 Introduction to Geographical Information Systems
3.0 Fa/Spr
Prerequisites: GEOG 110 or equivalent. This course provides an introduction to topics in Geographic Information Systems (GIS). The course will combine a conceptual discussion of topics with practical exercises using microcomputer software. Both the theory and practice of GIS analysis will be presented.

GEOG 120 Community and Rural Planning
3.0 Fall

GEOG 135 Geography and Tourism
3.0 Fall
Study of spatial and locational aspects of tourism, including environmental factors influencing tourism’s location and character.
GEOG 138 American Cultural Landscapes 3.0 Spring Analysis of the special character of North American landscapes. Examination of the historical evolution of contemporary landscapes through maps, reading, literature, field observations, and class discussion. Emphasis on comparison of regional patterns and the shaping of American landscapes by cultural and economic factors.

GEOG 151 California 3.0 Inquire The Golden State — land of contrast! A regional survey with emphasis upon the Earth and its human use.

GEOG 152 The United States 3.0 Fall A regional study of our nation in terms of the physical earth and its human use. The course includes emphasis on issues and problems related to resources, environmental concerns, and settlement patterns. Cultural and regional differences in human-environmental relationships are compared and contrasted. This is an approved General Education course.

GEOG 153 Canada: Land and People 3.0 Inquire The Canadian people and their cultural and physical landscapes are studied in terms of perceptions, processes, patterns, and relationships. This course is the same as CAST 153 which may be substituted.

GEOG 154A Land and People of Mexico 3.0 Fall An interdisciplinary approach to the study of social institutions and culture in terms of family, neighborhood, community, region, and nation, with specific emphasis on Mexico. This course is designed to be a component of the Upper-Division Theme on Mexico and Central America. This is an approved General Education course. This is an approved Non-Western Course.

GEOG 154B Land and People of Central America and the Caribbean 3.0 Inquire Study of the physical environment, human settlement, development, and modern problems of the nations of Central America and the Caribbean. This course is designed to be a component of the Upper-Division Theme on Mexico and Central America. This is an approved General Education course. This is an approved Non-Western Course. This course is the same as LAST 122 which may be substituted.

GEOG 155 South America 3.0 Inquire An analysis of an old but changing habitat that has been the focal point of much human achievement and strife. A nation-by-nation review of the homeland for half a billion people.

GEOG 165 Former Soviet Union 3.0 Spring A regional study of the world’s largest group of nations. This course considers environment, settlement, contemporary aspects, problems, and potentials.

GEOG 170 Pacific Rim Regions 3.0 Fall A survey of the physical, cultural, political, population, and resource patterns, and relationships in the economic and social evolution of the regions. You may take this course more than once for a maximum of 6.0 units.

GEOG 178 Australia and the South Pacific 3.0 Spring Modern Australia, New Zealand, and the South Pacific Islands, including Tahiti, Fiji, Samoa, Tonga, and New Guinea. Cultural and physical environments are analyzed and compared in terms of perceptions, processes, landscape patterns, and problems.

GEOG 189 Geography Internship 1.0-3.0 Fa/Spr This internship is offered as 199A-C for 1.0 to 3.0 units respectively. Students must register directly with a supervising faculty member. The internship provides service learning experience as a volunteer or supervisor in a campus or community environmental organization or agency. Each unit of credit requires a minimum of 60 hours of activity in the assigned role. 2.0 hours activity. Credit/no credit grading only. This course is the same as SOC 189 which may be substituted.

GEOG 198 Special Topics in Geography 1.0-3.0 Fa/Spr This course is for special topics offered as 198A-C for 1.0 to 3.0 units respectively. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See The Class Schedule for the specific topic being offered.

GEOG 198H Special Topics-Honors 3.0 Inquire Prerequisites: Junior standing and current enrollment in the Honors Program. In a format designed for students in the Honors Program, this course will present selected topics not covered in the regular curriculum. Topics will vary from one semester to another. See The Class Schedule for the specific topic being offered.

GEOG 199 Special Problems 1.0-3.0 Fa/Spr This course is an independent study of special problems and is offered as 199A-C for 1.0 to 3.0 units respectively. You must register directly with a supervising faculty member. Credit/no credit grading only.

GEOG 201 Geomorphology 3.0 Fall Prerequisites: GEOG 001 or GEOG 002 or equivalent. Systematic analysis of the origin and development of landforms. Emphasis is on the study of geomorphic processes using maps, air photos, and field data. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 203 Climatology 3.0 Spring Prerequisites: GEOG 001 or GEOG 020 or equivalent. Systematic analysis of the processes and controls of the earth’s climatic systems. Use of climatic classification systems; examination of climatic regions, microclimatology, and climatic applications.

GEOG 204 Biogeography 3.0 Fall Prerequisites: GEOG 001 or introductory biology course or equivalent. Systematic analysis of the major distributions of plants and animals and the processes which have influenced these patterns. Use of maps and aerial photos to interpret distributions, historical changes, and relationships of plants and animals to human societies.

GEOG 205 Nature and Society 3.0 Spring Prerequisites: GEOG 001 and GEOG 002 or equivalents. An analysis of the complex interactions between humans and plants and animals. Includes the use of maps and other graphic material as well as reading, lecture, and discussion. Emphasis on how human activities affect the distribution and abundance of various plant and animal species, and on the importance of plants and animals to human societies both in past and present times.

GEOG 213 Advanced Cartography 3.0 Spring Prerequisites: GEOG 108, GEOG 113. Cartographic data entry, manipulation, and analysis in a computer mapping environment. Emphasis on geographic information processing. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 214 Aerial Photo Interpretation 3.0 Spring Prerequisites: GEOG 108 or equivalent. Application of basic skills of aerial photographic interpretation to land use and environmental studies, geology, hydrology, range management, and urban studies. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 216 Locational Analysis 3.0 Inquire Prerequisites: Concurrent enrollment in or prior completion of GEOG 113 or equivalent. Examination of retail, service, and industrial location decision processes. Use of geographic information systems, quantitative methods, and field techniques to analyze and optimize business locations.

GEOG 217 Field Techniques 3.0 Spring Prerequisites: Faculty permission. Analysis of various field techniques and tools employed by geographers, and supervised application of field techniques in geography. Written and oral presentation of Field Survey. 6.0 hours activity. Special fee required; see The Class Schedule.

GEOG 218 Remote Sensing 3.0 Spring Prerequisites: GEOG 106 and GEOG 115 or equivalents. An introduction to the theory, techniques, data acquisition, processing, and presentation of imagery acquired through non-photographic and satellite means or remote sensing. The emphasis is on the application of the imagery to evaluate land cover and land use in the concept of human-earth relationships. 6.0 hours activity.

GEOG 219 Advanced Geographic Information Systems (GIS) 3.0 Spring Prerequisites: GEOG 115, GEOG 119. This course examines technical issues and emerging developments in Geographic Information Systems (GIS). Topics include design considerations, data structures, algorithms, and problems. Both raster and vector GIS systems will be examined. Demonstration projects will require both cartographic and tabular output.

GEOG 223 Planning Methods 3.0 Spring Prerequisites: GEOG 115, GEOG 120. Identification and analysis of the vocational skills necessary for students of planning and regional development, with emphasis on the preparation of general plans and special plan elements. 6.0 hours activity.

GEOG 224 Planning Studio 3.0 Spring Prerequisites: GEOG 109 for majors. GEOG 223 or equivalent. Application of planning theory and skills to a variety of actual planning studies in the field. Special fee required; see The Class Schedule.

GEOG 230 Urban Planning 3.0 Spring Prerequisites: GEOG 224 or equivalent. Planning studies and preparation of plans for urban areas. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 240 Urban Growth 3.0 Spring Prerequisites: GEOG 223 and GEOG 224 or equivalent. The study of regional growth in urban areas. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 250 Urbanization and Agriculture 3.0 Spring Prerequisites: GEOG 223. An analysis of the relationship of agricultural and urban environments and the growth of modern society. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 260 Urban Problems 3.0 Spring Prerequisites: GEOG 224 or equivalent. Examination of the human and physical fostering factors leading to urban problems. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 270 Urban Form 3.0 Spring Prerequisites: GEOG 223 or equivalent. Study of the nature of cities and the physical environment of modern urban areas. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 280 Urban Theory 3.0 Spring Prerequisites: GEOG 224 or equivalent. Historical, social, and economic development of the city. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.

GEOG 310 Urban Ecology 3.0 Spring Prerequisites: GEOG 223 or equivalent. Study of the internal and external influences and interrelationships of the city and its physical environment. 2.0 hours discussion, 2.0 hours activity. Special fee required; see The Class Schedule.
GEOG 225 Community and Regional Development 3.0 Fall
Examination of economic, social, demographic, and political bases for regional growth, development, and planning. Case studies of local and international regional development plans.

GEOG 226 Water Resource Development 3.0 Fall
Prerequisites: GEOG 104 or equivalent.
Analysis of local, regional, national, and international water resource projects, distributions, and characteristics. Special fee required; see The Class Schedule.

GEOG 227 Environmental Impact Analysis 3.0 Fa/Spr
Prerequisites: GEOG 120 or equivalent.
Study of the legal antecedents to California environmental impact legislation; analysis of environmental review procedures, environmental research, preparation and evaluation of EIRs, and conditional negative declarations.

GEOG 228 Site Planning 3.0 Spring
Prerequisites: GEOG 106; GEOG 120; or equivalent.
Relationship of physical, biotic, cultural, and aesthetic factors to land planning. Techniques of solving site problems dealing with topography, grading, slope stability, seismicity, hydrology, vegetation, wildlife, soils, micro-climate energy use, view-shed, and functional design. Land development projects are analyzed, and plans for new development projects are prepared. Special fee required; see The Class Schedule.

GEOG 230 Geodemography 3.0 Spring
Prerequisites: Faculty permission.
Geodemographic foundations of political developments and events, with emphasis on the geographical dimensions of demographic processes and how they underlie political changes.

GEOG 235 Historical Geography of North America 3.0 Fall
Prerequisites: Faculty permission.
A regional and topical description of North America at selected time periods, including cultural groups, land tenure systems, settlement patterns, agriculture, exploration and mapping, resource utilization, urbanization, population, and migrations, and present-day results. This course is the same as AMST 235 which may be substituted.

GEOG 236 Transportation Planning 3.0 Spring
Prerequisites: GEOG 101; GEOG 120; or faculty permission.
An analysis of the function and distribution of the various modes of transportation and their role in urban and regional development. Techniques of planning transportation systems based on land use.

GEOG 250A Field Studies 1.0 Inquire
Prerequisites: Faculty permission.
On-site survey of the physical and cultural geography of selected California sites, or other areas and topics. GEOG 250B or GEOG 250C may be substituted. Credit/no credit grading only. You may take this course more than once for a maximum of 6.0 units. Special fee required; see The Class Schedule.

GEOG 250B Field Studies 2.0 Inquire
Prerequisites: faculty permission.
On-site survey of the physical and cultural geography of selected California sites, or other areas and topics. 6.0 hours laboratory. Credit/no credit grading only. You may take this course more than once for a maximum of 6.0 units. Special fee required; see The Class Schedule.

GEOG 250C Field Studies 3.0 Inquire
Prerequisites: faculty permission.
On-site survey of the physical and cultural geography of selected California sites, or other areas and topics. Credit/no credit grading only. Special fee required; see The Class Schedule.

GEOG 260 Natural Hazards 3.0 Spring
Prerequisites: GEOG 001 or equivalent.
Identification, study, and understanding of the major natural hazard systems affecting human land use, settlement, and effective natural resource management.

GEOG 289 Internship 1.0-3.0 Fa/Spr
This course is an internship offered as 289A-C for 1.0 to 3.0 units respectively. You must register directly with a supervising faculty member. Supervised work experience. Credit/no credit grading only.

GEOG 290 Proseminar in Geography 3.0 Fa/Spr
Prerequisites: ENGL 001 (or its equivalent) with a grade of C- or higher; senior standing; and GEOG 109.
Proseminar on selected topics in geography. You may take this course more than once for a maximum of 6.0 units. This is a writing proficiency, WP, course; a grade of C- or better certifies writing proficiency for majors.

GEOG 298 Special Topics in Geography 1.0-3.0 Fa/Spr
Prerequisites: Completion of at least 1 unit of geography.
This course is for special topics offered as 298A-C for 1.0 to 3.0 units respectively. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See The Class Schedule for the specific topic being offered.

GEOG 299H Honors Research in Geography 3.0 Fa/Spr
Prerequisites: faculty permission.
An intensive 3-unit course in geographical research. See department office for details. Open only to students with at least a 3.0 GPA in the major. This course consists of a research project done under the supervision of a faculty member, a formal written paper, and a public presentation.

GEOG 300 Advances in Geography and Planning 3.0 Fall
Prerequisites: Faculty permission.
A critical survey of contemporary directions and research in the major themes of geography and planning.

GEOG 301 Research Models in Geography and Planning 3.0 Spring
Prerequisites: GEOG 300.
A critical survey of contemporary methodologies available for research in geography and planning.

GEOG 302 Seminar in Physical Geography 3.0 Inquire
Prerequisites: Faculty permission.
An examination of current research in climatology, geophysics, biogeography, or other selected topic in physical geography. You may take this course more than once for a maximum of 6.0 units.

GEOG 303 Seminar in Human Geography 3.0 Inquire
Prerequisites: Faculty permission.
An examination of current research in a selected human geography topic, including cultural, economic, urban, political, social, or behavioral geography. You may take this course more than once for a maximum of 6.0 units.

GEOG 305 Seminar in Applied Geography 3.0 Inquire
Prerequisites: Faculty permission.
An examination of current developments in a selected topic of applied geographical planning techniques. You may take this course more than once for a maximum of 6.0 units.

GEOG 306 Seminar in Special Topics 3.0 Inquire
Prerequisites: Faculty permission.
An investigation and analysis of a special topic in area studies or geographic education. You may take this course more than once for a maximum of 6.0 units.

GEOG 307 Environmental Planning 3.0 Spring
Prerequisites: BIOL 134, GEOG 227, and faculty permission.
Survey of environmental planning processes using concepts and principles of conservation ecology. Coverage includes legal mandates, administrative procedures, implementation techniques, and monitoring outcomes. Emphasis is on case studies and hands-on experience.

GEOG 308 Environmental Project Management 3.0 Inquire
Prerequisites: GEOG 227 and faculty permission.
This course provides students with direct experience in managing an environmental planning project. Under the supervision of a faculty member, students gain valuable problem solving skills by coordinating the many stages of an ongoing environmental project, from planning through implementation to assessment and evaluation.

GEOG 309 Internship 1.0-3.0 Fa/Spr
Prerequisites: Graduate Coordinator permission.
This course is an internship offered as 309A-C for 1.0 to 3.0 units respectively. You must register directly with a supervising faculty member. Supervised work experience. Credit/no credit grading only.

GEOG 310 Independent Study 1.0-3.0 Fa/Spr
Prerequisites: Graduate Coordinator permission.
This course is a graduate level independent study offered as 310A-C for 1.0 to 3.0 units respectively. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. Credit/no credit grading only.

GEOG 399 Master's Study 1.0-6.0 Fa/Spr
Prerequisites: Graduate Coordinator permission and candidacy status.
This course is a master's study offered as either a Master's Thesis for 1.0 to 6.0 units or as a Master's Project for 1.0 to 6.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units.