Degree Offered:
Bachelor of Arts.

Associate Professor:
Walasek, Ph.D. (Chair)

Assistant Professors:
Feng, Ph.D.; Wolf, Ph.D.; Zimmerman, Ph.D.

Student Organizations/Clubs:
Geography Club, Gamma Theta Upsilon

Career Possibilities:
Students who major in geography are prepared for careers in cartography, geographic information systems, environmental analysis, planning, and teaching. In addition, geography is a dynamic liberal arts major which combines cultural perspectives and analytical skills. Opportunities for employment are wide ranging. Possible employers include mapping firms, environmental agencies, planning commissions, site selection companies, marketing departments, school districts, and defense agencies.

Department Overview
Geography is the study of the distribution, variation, and inter-relation of the natural and cultural features of the Earth's surface. The Geography Department's mission is to extend geographic knowledge through high-quality educational programs, research, and service activities using appropriate technology to train students and solve problems. Geography's mission is important because aspects of place, area, location, and distribution are essential to resolving issues facing the region, the country and the world.

The UW-Parkside geography curriculum is designed to reflect the needs of society and nature so that the student will gain an appreciation of the varied spatial factors which influence life in today's interconnected world. Understanding global, national, and local patterns of economic activity, urban problems, cultural differences and environmental change is stressed.

Internships
The department is strengthened by an internship program with placement in local public or private sector locations.

Requirements for the Geography Major
Students majoring in geography may choose among the following:

1. General Major
2. Concentration in Planning
3. Concentration in Applied Environmental Geography
4. Certificate in Geographic Information Systems

I. Core Courses (26 or 27 credits)
All geography majors are required to complete the following courses or their equivalents:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 100</td>
<td>Physical Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Geography of American Ethnicity &amp; Race</td>
<td>3 cr</td>
</tr>
<tr>
<td>or</td>
<td>GEOG 105</td>
<td>Introduction to Human Geography</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>World Regions</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Economic Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 250</td>
<td>Map Use and Analysis</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 300</td>
<td>Geographic Methods</td>
<td>3 cr</td>
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<tr>
<td>GEOG 323</td>
<td>Climatology</td>
<td>3 cr</td>
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<tr>
<td>or</td>
<td>GEOG 324</td>
<td>Landform Geography</td>
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<td>or</td>
<td>GEOG 326</td>
<td>Biogeography</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Cartography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 495</td>
<td>Senior Seminar</td>
<td>2 cr</td>
</tr>
</tbody>
</table>

II. General Major (38 credits minimum)
The general major is designed for students wanting a broad background in geography. Most students also seeking teacher licensure (see the following page) would be in the general major. The core courses plus 12 credits of 300-level and above courses or their equivalents are required.

III. Concentration in Planning (38 credits minimum)
The concentration in planning is for students interested in positions or graduate study in urban and regional planning, business planning, or in related fields. The core courses plus the following or their equivalents are required.

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 360</td>
<td>Urban Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Land Use Planning</td>
<td>3 cr</td>
</tr>
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</table>

Two of the following:

<table>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>GEOG 330</td>
<td>Population Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Political Geography</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 375</td>
<td>Geography of Transportation</td>
<td>3 cr</td>
</tr>
<tr>
<td>GEOG 494</td>
<td>Internship in Planning</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
### IV. Concentration in Applied Environmental Geography (38 credits minimum)

This concentration allows students to emphasize physical geography and environmental analysis. A career in environmental management is one example of where this concentration could be used. The core courses plus the following or their equivalent are required.

**Four of the following:**
- GEOG 323 Climatology .................................. 3 cr
- GEOG 324 Landform Geography ..................... 4 cr
- GEOG 326 Biogeography .................................. 3 cr
- GEOG 380 Conservation of Natural Resources ....... 3 cr
- GEOG 382 Soil Ecosystems and Resources .......... 4 cr
- GEOG 384 Landscape Ecology .......................... 3 cr
- GEOG 396 Field Methods ................................ 3 cr

Note that the advanced physical geography course required in the core courses (323, 324, or 326) does not count toward this concentration. Students taking a second (and third) course from 323, 324, or 326 may use the course(s) in this concentration.

### V. Certificate in Geographic Information Systems (15 credits for non-majors; 41 credits minimum for geography majors).

Geographic information systems (GIS) analyze data bases for spatial patterns. GIS is increasingly important in a variety of applications like transportation planning, business logistics, and environmental impact analysis. This certificate can be earned by completing the following or their equivalents.

- GEOG 250 Map Use and Analysis .......................... 3 cr
  **or**
- GEOG 350 Cartography .................................. 3 cr
- GEOG 455 Remote Sensing Essentials ................. 3 cr
- GEOG 460 Introduction to Geographic Information Systems .................. 3 cr
- GEOG 465 Advanced Geographic Information Systems ................. 3 cr
- CSCI 105 Introduction to Computers .................... 3 cr

Geography majors must complete the core courses including both 250 and 350 and take at least 3 additional 300-level and above credits.

### Requirements for the Geography Minor

The minor in geography consists of a minimum of 18 credits. The following courses or their equivalents are required:

- GEOG 100 Physical Geography .......................... 3 cr
  **One of the following:**
  - GEOG 101 Geography of American Ethnicity & Race .............. 3 cr
  - GEOG 105 Introduction to Human Geography .................. 3 cr
  - GEOG 110 World Regions ................................ 3 cr

One of the following:
- GEOG 215 Economic Geography .......................... 3 cr
- GEOG 250 Map Use and Analysis .......................... 3 cr

The remaining 9 credits must be selected from geography courses at the 300-level and above.

### Teacher Licensure

Students seeking teacher licensure in the geography major or minor must fulfill Wisconsin Department of Public Instruction requirements; therefore, their course requirements may differ from those of the non-teaching major and minor. Information about the teacher education program and additional requirements for licensure can be obtained from the teacher education adviser at 262-595-2100.

### Courses in Geography (GEOG)

#### 100 Physical Geography................................. 3 cr

**Prereq:** None. **Freq:** Fall, Spring, Summer.

Examination of the primary patterns and processes in the atmosphere, lithosphere, hydrosphere, and biosphere. Earth and sun relationships. Influences on human activities. Not intended for geosciences majors.

#### 101 Geography of American Ethnicity & Race .... 3 cr

**Prereq:** None. **Freq:** Fall.

American ethnic and racial patterns from a distinctly geographic perspective. Historical forces shaping the geographical patterns of race and ethnicity are also explored.

#### 105 Introduction to Human Geography .............. 3 cr

**Prereq:** None. **Freq:** Spring.

An overview of contemporary themes in human geography including population issues, cultural differences, languages, politics, settlement patterns, migration, and economic organization.

#### 110 Introduction to Geography-World Regions .... 3 cr

**Prereq:** None. **Freq:** Fall, Spring, Summer.

A study of the cultural and physical characteristics of major world regions. Globalization and geographic perspectives on current international issues are emphasized.

#### 215 Economic Geography ................................ 3 cr

**Prereq:** None. **Freq:** Spring.

Analysis of the factors which influence the spatial patterns of economic activities and economic variables. Introductory course in geography recommended.

#### 250 Map Use and Analysis ............................. 3 cr

**Prereq:** None. **Freq:** Fall.

Interpretation of topographic maps, thematic maps, cartograms. Measurement of distance, area and slope. Map projections and locational grids; route finding; land ownership; use of aerial photographs.

#### 290 Special Topics in Geography ..................... 1-4 cr

**Prereq:** None. **Freq:** Occasionally.

Selected topics in geography will be examined.
300 Geographic Methods ................................................. 3 cr
Prereq: Junior standing and 9 credits in geography or consent of instructor. Freq: Fall.
Introduction to geographic concepts, methods, and procedures. Discussion of the application of selected descriptive and inferential statistical methods to geographic problems.

310 Geography of the United States and Canada ........... 3 cr
Prereq: None. Freq: Occasionally.
Covers the physical features, resources, people, land utilization, and economic development of the United States and Canada. Particular emphasis on the urban industrial core.

315 Geography of Wisconsin ..................................... 3 cr
Prereq: None. Freq: Summer.
Wisconsin's characteristics are explained and compared to the rest of the United States. Patterns of population, climate, terrain, economic activity, transportation, culture, and statewide issues are examined from a geographic perspective.

320 Regional Geography .......................................... 3 cr
Prereq: None. Freq: Occasionally.
Physical and cultural features of selected regions. Emphasis on industrialization and economic organization. May be taken for credit each time a different region is studied.

323 Climatology ....................................................... 3 cr
Prereq: GEOG 100. Freq: Occasionally.
Characteristics, processes, distribution, classification and geographical significance of Earth's climates. Climate change.

324 Landform Geography ......................................... 4 cr
Prereq: GEOG 100. Freq: Every third semester.
Characteristics, processes, distribution, and geographical significance of the world's landforms. Analysis of tectonics, rock types, glaciation, fluvial processes and soil genesis. Includes field trip, lab applications, and aerial photo interpretation.

326 Biogeography .................................................... 3 cr
Prereq: GEOG 100 or BIOS 102 or consent of instructor. Freq: Fall.
An examination of the spatial and temporal distribution of organisms and the factors influencing those distributions, both past and present, including human impact on vegetation.

330 Population Geography ....................................... 3 cr
Prereq: A course in geography. Freq: Every third semester.
Emphasizes geographic factors that influence patterns of human existence. Examines population distributions and growth as related to environmental and resource issues. Includes case studies, applications and methods of analysis.

340 Political Geography .......................................... 3 cr
Prereq: A course in geography. Freq: Every third semester.
Geographical explanation of the political organization of space and territory. Issues are explored at scales ranging from global to local. Globalization, transnationalism, boundary problems, regional conflict, ethnic nationalism, and the local context for planning and policy are stressed.

350 Cartography ...................................................... 3 cr
Prereq: GEOG 250 or consent of instructor. Freq: Fall.
Principles of basic cartography, including map projection, compilation, generalization, and symbolization; emphasis on presenting quantitative data using computerized techniques.

360 Urban Geography ............................................. 3 cr
Prereq: A course in geography. Freq: Fall.
Theories of urban development and location. Analysis of the spatial patterns in the American city that result from economic, technological, political, and cultural transformations. Urban planning theories and practice are introduced.

365 Geography in Land Use Planning .......................... 3 cr
Prereq: A course in geography. Freq: Spring.
Detailed and technical explanation of land use planning practices in the American city. Selected case studies from southeastern Wisconsin and northeastern Illinois.

375 Geography of Transportation ................................ 3 cr
Prereq: A course in geography. Freq: Occasionally.
Geographic analysis of transportation with emphasis on networks, commodity flows, traffic patterns, impacts on development, and the different modes. Transportation planning is included.

380 Conservation of Natural Resources ...................... 3 cr
Prereq: None. Freq: Summer.
Examination of significant environmental issues. Policies and problems in the use and management of natural resources. Selected topics taken from southeastern Wisconsin.

382 Soil Ecosystems and Resources ............................ 4 cr
Prereq: GEOG 100. Freq: Occasionally.
An examination of soils as both natural bodies and as managed resources, integrating the basic properties of soil relevant to understanding plant-soil relationships in natural and human-altered landscapes. Includes lab and field experience.

384 Landscape Ecology ............................................ 3 cr
Prereq: GEOG 100 or BIOS 102 or consent of instructor.
Freq: Occasionally.
A study of the interactions between the landscape and its biotic and cultural components. Examines how a natural landscape can be perceived based on patterns of species distributions and species interactions with their environment. Emphasizes human modification of natural processes affecting vegetation.

390 Special Topics in Geography ............................... 3 cr
Prereq: None. Freq: Occasionally.
Selected topics in geography will be examined.

396 Field Methods in Geography .............................. 3 cr
Prereq: Consent of instructor. Freq: Summer.
Acquisition and application of geographic concepts, methods and tools in a field setting. Hands-on experience and in-depth learning about the geography of a selected area. May be taken for credit each time a different area is studied. Additional fees required.

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455 Remote Sensing Essentials ..........................................3 cr
Prereq: GEOG 250 or 350 or consent of instructor.
Freq: Every third semester.
Overview of remote-sensing systems (airborne or satellite).
Principles of photographic and electromagnetic remote sensing systems which detect, record and measure distributions of natural and cultural phenomena. Interpretation of aerial and orbital imagery for urban and environmental research and planning.

460 Introduction to Geographic Information Systems.......3 cr
Prereq: GEOG 250 or 350 or consent of instructor. Freq: Yearly.
Map overlay analysis. Microcomputer system: spatial data bases (data capture, verification, structure, management); and operations (reclassification, overlaying, rotation, scale change, projections, neighborhood functions, modeling).

465 Advanced Geographic Information Systems...............3 cr
Prereq: GEOG 460 or consent of instructor. Freq: Every third semester.
Advanced, technical implementation and application issues in GIS. Advanced vector and raster operations with selected GIS packages. Includes a course project and communicating the results.

490 Special Topics in Geography................................1-3 cr
Prereq: Consent of instructor. Freq: Occasionally.
Selected topics in geography will be examined.

494 Internship in Planning...........................................3-12 cr
Prereq: Junior standing, geography or related major, 2.75 GPA in geography courses, and consent of instructor.
Freq: Fall, Spring, Summer.
Work under the direction of planning officials in collecting, coding, compiling, editing and mapping land use and other geographic information used in the planning process. May be repeated for a maximum of 12 credits with up to 6 credits toward the major.

495 Senior Seminar....................................................2 cr
Prereq: Senior standing, geography or related major.
Freq: Fall, Spring.
Capstone course applying knowledge and concepts of geography. Includes completing a major project and communicating the results.

499 Independent Study ...............................................1-3 cr
Prereq: Junior standing, 2.25 overall GPA, and consent of instructor.
Freq: Fall, Spring, Summer.
Maximum of 6 credits may be applied toward the major.

Graduate Courses

596 Field Methods in Geography.................................3 cr
Prereq: Consent of instructor. Freq: Summer.
Acquisition and application of geographic concepts, methods, and tools in a field setting. Hands-on experience and in-depth learning about the geography of a selected area. May be taken for credit each time a different area is studied. Additional fees required.

690 Special Topics in Geography...............................1-4 cr
Prereq: None. Freq: Occasionally.
Advanced study on selected topics in geography.