**GEOGRAPHY AND ANTHROPOLOGY**

Phillips 257  
715-836-3244  
Department Website ([https://www.uwec.edu/academics/college-arts-sciences/departments-programs/geography-anthropology/](https://www.uwec.edu/academics/college-arts-sciences/departments-programs/geography-anthropology/))

Geographers describe, analyze, and explain the patterns and processes of natural environmental and the human cultural systems of the earth. They emphasize the importance of the location and patterns of people, places, and events; the physical and human characteristics of regions; and the relations between people, places, culture, and environment.

With training in both the natural and social sciences, and the tools and perspectives for understanding them, geographers have a wide range of career opportunities in public and private sectors. Geographers find work in such fields as municipal and regional planning, marketing, real estate, tourism, transportation, teaching, environmental analysis, and natural resource management. Geographers are increasingly in demand for jobs that require expertise in geospatial techniques, such as geographic information systems (GIS), global positioning systems (GPS), remote sensing, and computer cartography.

The discipline of anthropology adopts an integrative, comprehensive approach to the study of humankind. Anthropologists seek to understand human conditions by examining the biological evolution of human beings, the human capacity to create culture, and the diverse ways of life developed by societies around the world.

**Honor Societies, Student Organizations, and Internships**

**GTU: Gamma Theta Upsilon** is an international honor society in geography.

Contact: Ryan Weichelt, weicherd@uwec.edu

**Geography & Anthropology Club**

Contact: Ezra Zeitler, zeitleej@uwec.edu or Ryan Weichelt, weicherd@uwec.edu

**Internship Opportunities**

For information, contact your advisor

**Departmental Honors in Geography and Anthropology**

The Department of Geography and Anthropology encourages and creates opportunities for all of its students to participate in research and creative learning activities with department faculty. Especially motivated and high-achieving students are invited to pursue Departmental Honors in Geography or Anthropology. The Departmental Honors Program enhances students’ undergraduate experience, recognizes outstanding work and achievement, and can open up exceptional educational and professional opportunities.

**Eligibility:**

Must be a declared major or minor, have completed the core introductory courses (GEOG 104, GEOG 111, GEOG 178, and GEOG 200 or ANTH 161, ANTH 165, ANTH 169, and an area course), and have resident and major/minor GPAs of at least 3.50.

**Application Procedures:**

Student applicants should submit an electronic application for Departmental Honors in Geography or Anthropology to the Department Chair – through the applicant’s advisor – for approval as soon as interested and eligible, but no later than prior to the start of the student’s final semester before graduation. Department faculty and staff may also identify qualified students and encourage them to apply. The e-form application should elaborate on professional activities, research interests, and aspirations; an unofficial copy of transcripts should be attached. Final approval and recommendation for Departmental Honors will be made following satisfactory completion of all requirements (see below). Please see the Department Chair for more information and application details.

**Requirements:**

1. Conduct research and disseminate results: Satisfactorily complete one substantial faculty-student research collaboration in Geography or Anthropology that results in
   a. a presentation at a regional, national, or international professional conference; and
   b. an oral presentation to be given to at least three members of the faculty in such forums as departmental capstone presentations, regional conferences, UW-Eau Claire’s annual Provost’s Honors Symposium or professionally comparable venues.
2. Satisfactorily complete GEOG 401 or ANTH 499, to include a thesis or substantial paper written under the supervision of a Geography or Anthropology faculty member, or publish collaborative research results (see Requirement #1) in a peer-reviewed journal.
3. Maintain a 3.5 cumulative resident GPA and a 3.5 GPA in Geography or Anthropology courses.

**Faculty**

Ezra Zeitler, Chair

Ari Anand  
Douglas Faulkner  
Matt Haffner  
Sean Hartnett  
Gloria Howerton  
Harry Jol  
Paul Kaldjian  
Garry Running  
Ryan Weichelt  
Cyril Wilson

Martin Goettl, Geospatial Technology Facilitator

**Majors**

anthropology/geospatial-analysis-technology-comprehensive-major-bas/}

Minors

• Minor: Geography, Liberal Arts [link]

Certificates

• Certificate: Anthropology [link]
• Certificate: Geospatial [link]
• Certificate: Geospatial in Geographic Information Systems [link]
• Certificate: Geospatial in Remote Sensing [link]
• Certificate: Geospatial in Mapping [link]

Geography

GEOG 104 The Physical Environment (4 crs)
Introduction to the spatial relations and interactions among the Earth's dynamic systems—atmosphere, biosphere, lithosphere, and hydrosphere (weather, climate, landforms, soils, and ecosystems).

Attributes: GE IIC Natural Science-Geography, Lab Science, LE-K1 Natural Sciences, LE-K1L Natural Sciences with Lab, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 2

GEOG 111 Human Geography (3 crs)
The basic elements, processes, distributions, and problems associated with cultural groups: their principal ways of life, interrelationships with the natural environment, and socio-cultural diversity. Topics include: population, race, language, religion, political ideologies, and economic systems.

Attributes: Foreign Culture, Cultural Diversity 1 cr., GE IIC Social Science-Geography, LE-I1 Integration, LE-K2 Social Sciences
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 135 Introduction to Geospatial Analysis (3 crs)
Introduces foundations of geospatial technology and spatial thinking using real world environmental and social case studies. Key geographic issues will be explored through the utilization of geospatial technology.

Attributes: GE IIC Natural Science-Geography, LE-S3 Creativity
Grading Basis: A-F Grades Only
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 155 Economic Geography (3 crs)
The study of the spatial variation of human economic activities. Emphasis is on location models of production, international trade and commerce, population growth, consumption, and interactions and interdependencies at local and global scales.

Attributes: GE IIIC Social Science-Geography, LE-K2 Social Sciences, LE-R2 Global Perspectives
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 178 Conservation of the Environment (3 crs)
Prerequisite: No credit after BIOL 180
• Satisfies requirement for Wisconsin teaching licensure in science and social science.
The use and abuse of environmental resources and the problems involved in their management and conservation.

Attributes: GE IIC Natural Science-Geography, LE-I1 Integration, LE-K1 Natural Sciences
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 188 Cultural Landscapes of North America (3 crs)
Explores the cultural landscapes of North America, with attention to rural-urban differences, cross-national comparisons, and landscapes of the past, present, and future.

Attributes: Cultural Diversity 2 cr., GE IIC Social Science-Geography, LE-DDIV Design for Diversity, LE-R1 Equity, Diversity, and Inclusivity
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 200 Foundations of Geography (3 crs)
Prerequisite: Limited to Geography majors and minors and Geospatial Analysis and Technology majors
An introduction to the foundations, principles and primary geospatial techniques and analyses used in geography.
Lecture/Discussion Hours: 2
Lab/Studio Hours: 0

GEOG 213 Critical Approaches to Information & Research (2 crs)
Introduces natural and social science students to information literacy and research. Critically evaluates information and how it is generated, disseminated, and filtered.

Attributes: GE V University Wide, LE-I1 Integration
Grading Basis: A-F Grades Only
Lecture/Discussion Hours: 2
Lab/Studio Hours: 0
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Attributes</th>
<th>Lecture/Discussion Hours</th>
<th>Lab/Studio Hours</th>
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<tbody>
<tr>
<td>GEOG 220</td>
<td>World Regional Geography: Diversity &amp; Globalization (3 crs)</td>
<td>3</td>
<td>Examines the cultural and environmental diversity of our interconnected world using geographical perspectives and tools. Topics include the spatial dimensions of traditional and popular culture, physical environments, nature-society interactions, population distribution and movement, languages and belief systems, socio-economic linkages, politics, urbanization, and other characteristics of the world's people and places.</td>
<td>LE-K2 Social Sciences, LE-R2 Global Perspectives</td>
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<td>GEOG 270</td>
<td>Introduction to Urban and Regional Planning (3 crs)</td>
<td>3</td>
<td>Basic concepts and philosophies of urban and regional planning, land use, zoning, and sustainable urban development.</td>
<td>LE-R3 Civic and Environmental Issues, Field Trip(s) Required</td>
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<td>GEOG 280</td>
<td>Cartographic Design (3 crs)</td>
<td>3</td>
<td>The elements of cartography. Emphasis on the graphic expression of geographical and statistical data for reproduction on maps.</td>
<td>LE-I1 Integration, LE-S3 Creativity</td>
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<td>GEOG 291</td>
<td>Special Topics (1-3 crs)</td>
<td>Variable</td>
<td>Contemorary issues and special topics in geography not typically covered in introductory geography courses. Varies based on interest of students and faculty. May include field trips and experiences.</td>
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<td>GEOG 301</td>
<td>Geography of Western Europe (3 crs)</td>
<td>3</td>
<td>Europe west of the former Soviet Bloc countries, with emphasis on physical, biotic, and cultural themes which unify the region. Includes the national level of regionalization. Utilizes aspects of history, politics, literature, and physical geography.</td>
<td>Foreign Culture, GE IIC Social Science-Geography, LE-I1 Integration, LE-R2 Global Perspectives</td>
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<td>GEOG 304</td>
<td>Introduction to Geomorphology (4 crs)</td>
<td>3</td>
<td>An introduction to physical processes that affect the Earth’s surface and the landforms that result. The techniques of investigating landforms (field/ laboratory) and the fundamentals of communicating the results will be covered.</td>
<td>LE-I1 Integration, LE-K1 Natural Sciences, LE-K1L Natural Sciences with Lab, Field Trip(s) Required, Special Course Fee Required</td>
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<td>GEOG 308</td>
<td>Geography of Russia and Eastern Europe (3 crs)</td>
<td>3</td>
<td>Examination of natural and human resources, economic and political organization of Eastern Europe and the former Soviet Union. Special attention to ideological and institutional problems of population growth, nationalities, and regional development.</td>
<td>Foreign Culture, GE IIC Social Science-Geography, LE-I1 Integration, LE-R2 Global Perspectives</td>
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<td>GEOG 312</td>
<td>Space, Society, Subject (3 crs)</td>
<td>3</td>
<td>Broad introduction to social theory in anthropology and geography with an emphasis on contemporary theoretical approaches to social, spatial, and cultural dynamics and their intersections.</td>
<td>Cultural Diversity 1 cr., GE IIIA Social Science-Anthropology, LE-DDIV Design for Diversity, LE-K2 Social Sciences, LE-R1 Equity, Diversity, and Inclusivity, Undergraduate/Graduate Offering</td>
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<td>GEOG 313</td>
<td>Culture and Transnational Dynamics (3 crs)</td>
<td>3</td>
<td>Critical discussion of conceptual approaches to cultural processes, differences, and encounters from a transnational perspective.</td>
<td>Foreign Culture, Cultural Diversity 1 cr., GE IIIA Social Science-Anthropology, LE-K2 Social Sciences, LE-R2 Global Perspectives</td>
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GEOG 319 Geography of the Middle East and North Africa (3 crs)
Examination of the physical, cultural, economic, and political geography of the Middle East and North Africa. Emphasis placed on understanding the region's people, places, cultures, nature-society relationships, and the roots of conflict.
Attributes: Foreign Culture, GE IIIC Social Science-Geography, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 321 Geography of Latin America (3 crs)
• Credit may not be earned in both GEOG 321 and LAS 321.
The physical and cultural landscapes of Latin America, including North, Central, and South America and the Caribbean Islands, with attention to the major cultural, economic, social, and political currents of each region.
Attributes: Foreign Culture, GE IIIC Social Science-Geography, LE-I1 Integration, LE-R2 Global Perspectives, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 322 Native Geographies (3 crs)
• Credit may not be earned in both GEOG 322 and AIS 322.
The historical and contemporary relationships of American Indians to place, including land use and environmental issues, Indigenous mapping techniques, sacred sites, territorial nationhood, and legal rights to ceded and sovereign lands. The course also provides insight into the unique cultures of Indigenous peoples around the world.
Attributes: Cultural Diversity 3 cr., GE IIIC Social Science-Geography, LE-DDIV Design for Diversity, LE-I1 Integration, LE-R1 Equity, Diversity, and Inclusivity, Undergraduate/Graduate Offering, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 325 Geography of the United States and Canada (3 crs)
Introduces geographic concepts of region, nature-society relationships and spatial organization to compare and contrast Canada, the United States, and places within them. Maps used to explore and understand spatial patterns in the human experience and physical environment.
Attributes: Cultural Diversity 1 cr., GE IIIC Social Science-Geography, LE-DDIV Design for Diversity, LE-I1 Integration, LE-R1 Equity, Diversity, and Inclusivity
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 335 Geographic Information Systems I (3 crs)
• GEOG 200 is recommended prior to enrollment in this course.
Introduction to the fundamental concepts of GIS technology and the utilization of spatial data for solving geographic problems. Raster and vector approaches to spatial processing are examined. Special emphasis is given to raster based systems.
Attributes: Undergraduate/Graduate Offering
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 336 Geospatial Field Methods (3 crs)
Prerequisite: GEOG 335
Consent: Instructor Consent Required
Project-based hands-on learning will teach students field data collection techniques/methods for those interested in a career involving geospatial issues. Traditional and advanced geospatial technology are implemented in the course.
Attributes: Undergraduate/Graduate Offering, Field Trip(s) Required
Grading Basis: A-F Grades Only
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 337 Geographic Information Systems II (3 crs)
Prerequisite: GEOG 335
This course expands directly on knowledge gained in Geog 335, Geographic Information Systems I. Focus will be on gaining additional technical skills and applying them to answer more in-depth geospatial questions.
Attributes: Undergraduate/Graduate Offering
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 338 Remote Sensing of the Environment (3 crs)
• GEOG 200 is recommended prior to enrollment in this course.
Descriptive interpretation of remote-sensing images from ground, aerial, and space platforms.
Attributes: Undergraduate/Graduate Offering
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 339 Computer Mapping (3 crs)
Introduction to the uses of computers in the design and construction of maps. Topics include digitizing tasks, the organization and utilization of mapping software, and the production of computer-drawn maps.
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
GEOG 340 Climatology (3 crs)
Prerequisite: GEOG 104
Comprehensive study of climatic phenomena with emphasis on global heat and water balances, daily weather analysis, climate classification, and climate change.
Attributes: Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 341 Weather and Society (3 crs)
Prerequisite: GEOG 104 or consent of instructor.
This course provides the student with a theoretical and applied understanding of meteorological events and their subsequent impacts upon society.
Attributes: GE II Natural Sciences, LE-K1 Natural Sciences
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 345 Quaternary Environments (3 crs)
Prerequisite: GEOG 304
Causes, history, and effects of the Ice Ages, including the study of climatic changes, related oceanic and biological disruptions, Ice Age landforms; also, the characteristics and world distribution of modern glaciers.
Attributes: Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 350 Soils and the Environment (4 crs)
Prerequisite: GEOG 104 or GEOL 110 or GEOL 115; and GEOG 304 or GEOL 312.
Consent: Instructor Consent Required
Study of soil properties, formation processes, and classification with emphasis on fieldwork, application of soil information to resource management and land use, and technical report writing.
Attributes: Undergraduate/Graduate Offering, Field Trip(s) Required
Grading Basis: A-F Grades Only
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 351 Cross-Cultural Dynamics (3 crs)
- Credit may not be earned in both ANTH 351 and GEOG 351.
Preparation for study, work, or travel abroad. Study of cultural differences in values, customs, and communication styles. Consideration of the process of adjustment to a foreign culture and the problems of intercultural communication.
Attributes: Foreign Culture, GE IIIA Social Science-Anthropology
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 352 Business Geographics (3 crs)
Business applications of geographic analysis. Emphasis on population geography, U.S. Census data, location, threshold and market area analysis, retail site location, and location allocation. Use of GIS software, large spatial databases, and database manipulation required.
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 353 Biogeography (3 crs)
Prerequisite: GEOG 104, GEOG 178, or BIOL 180
- GEOG 335 is recommended prior to enrollment in this course.
This course introduces the identification, description, interpretation, and explanation of historical and contemporary patterns of biogeographical diversity, patterns, and processes on local, regional, and global scales. Geospatial field techniques are employed to collect and analyze local data used to understand the impacts of environmental change.
Attributes: Field Trip(s) Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 358 LiDAR Analysis & Applications (3 crs)
Prerequisite: GEOG 335 and GEOG 338.
Introduction to the visualization, processing & use of airborne & terrestrial LiDAR data for applications in environmental & socio-cultural settings.
Attributes: Undergraduate/Graduate Offering
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 361 Environmental Hazards (3 crs)
The course focuses on environmental hazards and disasters (including geomorphic, atmospheric, and human): how the normal processes of the earth concentrate their energies and deal destructive blows to humans and their structures.
Attributes: GE IIC Natural Science-Geography, LE-II Integration, LE-K1 Natural Sciences, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 363 Watershed Analysis (4 crs)
Prerequisite: GEOG 104 or GEOG 110 or GEOG 115; and GEOG 304 or GEOL 312.
Consent: Instructor Consent Required
Watershed-based study of surface-water hydrologic processes and the factors (climate, soils, vegetation, land use) that affect them. Particular emphasis placed on investigations of watersheds in the Eau Claire area.
Attributes: Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 2
GEOG 364 Fluvial Processes and Landforms (4 crs)
Prerequisite: GEOG 104 or GEOL 110 or GEOL 115; and GEOG 304 or GEOL 312.
Consent: Instructor Consent Required
Study of river processes and the landforms that result from them, including how processes and landforms respond to natural and anthropogenic environmental change. Investigations of streams in the Eau Claire area emphasized.
Attributes: Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 2

GEOG 365 Tourism Geographies (3 crs)
Exploration of outdoor recreation resources in the U.S. with emphasis on their diverse recreational amenities; societal and personal leisure values; related user problems; management solutions.
Attributes: GE IIIC Social Science-Geography, LE-K2 Social Sciences, LE-R2 Global Perspectives, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 366 Geography International Immersion Experience (1-3 crs)
Consent: Instructor Consent Required
• Preparatory prerequisite course may be required.
Place-based analysis using field and interdisciplinary methods to learn about the environments, society and culture of the immersion region. International field sites, experiences and special topics may vary by semester.
Attributes: Foreign Culture, Field Trip(s) Required, Special Course Fee Required Varies by Term/Section
Repeat: Course may be repeated for a maximum of 6 credits
Grading Basis: A-F Grades Only

GEOG 367 Landscape Analysis: Cultural (3 crs)
Prerequisite: Minimum sophomore standing.
Geographic analysis of cultural landscapes by means of field experiences.
Attributes: GE IIIC Social Science-Geography, Field Trip(s) Required
Repeat: Course may be repeated for a maximum of 6 credits
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 368 Geography Field Seminar (3 crs)
Prerequisite: Limited to geography majors and minors or consent of instructor. Minimum junior standing.
Place-based analysis using geographic methods and field investigations. Field sites and research topics will vary from semester to semester.
Attributes: Field Trip(s) Required, Special Course Fee Required Varies by Term/Section
Repeat: Course may be repeated for a maximum of 6 credits
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 369 Geography of Food (3 crs)
Prerequisite: Minimum sophomore standing.
• A geography course is recommended prior to enrollment in this course.
Explores the geography and spatial dimensions of food, with attention to the cultures and environments from which they emerged, changing nature/society relationships, and the implications of globalization, economic growth, and technological innovations.
Attributes: Foreign Culture, GE IIIC Social Science-Geography, LE-I1 Integration, LE-K2 Social Sciences, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 370 Quantitative Methods in Geography (3 crs)
Prerequisite: GEOG 335. Limited to geography majors and minors.
An introduction to spatial/quantitative methods in geography. Topics include central tendency, mean center, probability, regression, spatial autocorrelation, and geographically weighted regression.
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 375 Environmental Quality (3 crs)
• GEOG 178 or BIOL 180 is recommended prior to enrollment in this course.
Society's impact on the quality of the environment. The role of cultural attitudes, population, economic systems, technology, and political institutions in creating environmental problems.
Attributes: GE III Social Science, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 377 U.S. Environmental and Sustainability Policy (3 crs)
• Credit may not be earned in both ENV 377 and GEOG 377.
Students will study U.S. environmental and sustainability law and policy to assess the roles of science, key actors, and values in policymaking.
Attributes: GE IIIG Social Science-Interdisciplinary Study, LE-K2 Social Sciences, LE-R3 Civic and Environmental Issues, Field Trip(s) Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 378 International Environmental Problems and Policy (3 crs)
• Credit may not be earned in both GEOG 378 and ENV 378.
Examination of the threats to the global environment and the response of the international community.
Attributes: Foreign Culture, GE IIIC Social Science-Geography, LE-I1 Integration, LE-R3 Civic and Environmental Issues
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
GEOG 379 Geography of Wisconsin (3 crs)
A geographic analysis of Wisconsin and its people, with emphasis on cultural and environmental characteristics, patterns of land use, and changing ways of life.
Attributes: GE III Social Science, LE-I1 Integration, LE-K2 Social Sciences, Undergraduate/Graduate Offering, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 388 Military Geography (3 crs)
Consent: Instructor Consent Required
Explores the diversity of military geography by linking military affairs to the human and physical landscape. Examines how the environment influences military activities, how military activities impact the environment, and how technology has influenced the changing geographic dimensions of conflict.
Attributes: Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 390 Geospatial Applications of UAS (3 crs)
Prerequisite: GEOG 335
• GEOG 338 is recommended prior to enrollment in this course.
This course introduces Unoccupied/Unmanned Aerial Systems (UAS) and their applications in the natural and built environment. Topics include UAS sensors and platforms, the ethics of UAS use, sensors calibration and boresighting, flight planning and flying of UAS, data processing software, data quality and accuracy, and the production of ortho-rectified imagery, multispectral imagery, digital terrain, surface models, and other geospatial deliverables.
Attributes: Undergraduate/Graduate Offering, Field Trip(s) Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 395 Directed Studies (1-3 crs)
Consent: Department Consent Required
Directed study of a geographic problem approved by the supervising instructor and the Department Chair.
Attributes: Undergraduate/Graduate Offering
Repeat: Course may be repeated

GEOG 399 Independent Study - Juniors (1-3 crs)
Prerequisite: Limited to geography majors and minors. Minimum junior standing.
Consent: Department Consent Required
An intensive study of a geographic topic resulting in a quality paper or report suitable for publication.
Repeat: Course may be repeated

GEOG 401 Capstone Seminar (3 crs)
Prerequisite: Core courses (except capstone courses) required for all geography majors.
Designed to integrate theory and methodology, quantitative, and cartographic techniques, and field work to serve as a "capstone experience" for geography majors. Literature review, research design, data collection, and presentation skills are stressed.
Attributes: LE-S3 Creativity, Capstone Course
Repeat: Course may be repeated for a maximum of 6 credits
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 435 Geographic Information Systems III (3 crs)
Prerequisite: GEOG 335
• No credit if taken after GEOG 491 when offered as Advanced Geographic Information Systems.
This course will advance students' knowledge of theoretical concepts and skills in geographic information systems in science. Emphasis will be placed on application of these concepts and skills in geospatial analysis.
Attributes: Undergraduate/Graduate Offering
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 438 Remote Sensing Data Analytics (3 crs)
Prerequisite: GEOG 338
Explores the principles and techniques of collecting, processing, and extracting information from remotely sensed data to facilitate geospatial intelligence sharing in support of sustainable planning and management.
Attributes: Field Trip(s) Required
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 444 Legal Geographies of Race in the U.S. (3 crs)
Prerequisite: Minimum junior standing, or consent of instructor
• A previous class in the social sciences or humanities is recommended.
This course provides an introduction to the subdiscipline of legal geography. Explores the interactions between race and the law in the United States, with a specific focus on how U.S. law (re)produces racial inequalities. We examine how U.S. law has constructed race itself and provided differing rights based on racial categories. Students will consider the various institutions and processes that have come together to shape our contemporary racial landscape through the lens of law.
Attributes: LE-DDIV Design for Diversity, LE-K2 Social Sciences, LE-R1 Equity, Diversity, and Inclusivity
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
GEOG 445 Historical Geography (3 crs)
Prerequisite: GEOG 178 or BIOL 180.
Examines how human activities have impacted the natural world, how attitudes toward nature have shifted over time, and how human activities and attitudes have altered our landscape. Emphasis is on United States environmental history.

Attributes: GE IIIC Social Science-Geography, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 446 Political Geography (3 crs)
A systematic analysis of the distribution of political activity and the relationship of that pattern to other spatial phenomena. Emphasis on national states and international problems.

Attributes: GE IIIC Social Science-Geography, LE-K2 Social Sciences, LE-R2 Global Perspectives
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 455 Web Geographic Information Systems (3 crs)
Prerequisite: GEOG 335
An introduction to Web GIS, the programming concepts underpinning construction and implementation of high quality web and mobile solutions.

Attributes: Undergraduate/Graduate Offering
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 470 Urban Geography (3 crs)
Considers (1) cities as systems of service, trade, and manufacturing centers; (2) the internal structure of cities with emphasis on residential, commercial, and industrial patterns. North American urban places and solutions are stressed.

Attributes: Cultural Diversity 1 cr., Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 491 Advanced Special Topics (1-3 crs)
Consent: Department Consent Required
Lecture/Discussion Hours: Variable
Contemporary issues and special topics in geography. Varies based on interest to students and faculty. May include field trips and experiences.

Attributes: Special Course Fee Required Varies by Term/Section
Repeat: Course may be repeated for a maximum of 6 credits
Lab/Studio Hours: 0

GEOG 498 Geography Internship (1-3 crs)
Consent: Department Consent Required
Application and approval required by supervising instructor, agency representative and department chair prior to start of internship.

Application of geographic knowledge and skills in supervised professional activities relevant to the student’s area of emphasis. Involves active reflection tied to the student’s academic and career interests. Option to pursue service learning where applicable.

Attributes: Service-Learning Optional, Capstone Course, Internship
Repeat: Course may be repeated for a maximum of 6 credits

GEOG 499 Independent Study - Seniors (1-3 crs)
Prerequisite: Limited to geography majors and minors. Minimum senior standing.
Consent: Department Consent Required
Same as GEOG 399, except for senior majors only.
Repeat: Course may be repeated

GEOG 512 Space, Society, Subject (3 crs)
• Cross-listed with ANTH/GEOG 312/512. Credit may only be earned in one of these courses.

Broad introduction to social theory in anthropology and geography with an emphasis on contemporary theoretical approaches to social, spatial, and cultural dynamics and their intersections.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Seminar Hours: 0

GEOG 513 Culture and Transnational Dynamics (3 crs)
Prerequisite: Credit may not be earned in both ANTH/GEOG 313/513 and ANTH/GEOG 351.
• Cross-listed with ANTH/GEOG 313/513. Credit may only be earned in one of these courses.

Critical discussion of conceptual approaches to cultural processes, differences, and encounters from a transnational perspective.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 521 Geography of Latin America (3 crs)
• Cross-listed with LAS/GEOG 321/521. Credit may only be earned in one of these courses.

The physical and cultural landscapes of Latin America, including North, Central, and South America and the Caribbean Islands, with attention to the major cultural, economic, social, and political currents of each region.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
**GEOG 522 Native Geographies (3 crs)**
- Cross-listed with GEOG 322 and AIS 322/AIS 522. Credit may only be earned in one of these courses.

The historical and contemporary relationships of American Indians to place, including land use and environmental issues, Indigenous mapping techniques, sacred sites, territorial nationhood, and legal rights to ceded and sovereign lands. The course also provides insight into the unique cultures of Indigenous peoples around the world.

Attributes: Field Trip(s) Required, Special Course Fee Required
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

**GEOG 535 Geographic Information Systems I (3 crs)**
- Cross-listed with GEOG 335. Credit may not be earned in both courses.

**GEOG 200 is recommended prior to enrollment in this course.**

Introduction to the fundamental concepts of GIS technology and the utilization of spatial data for solving geographic problems. Raster and vector approaches to spatial processing are examined. Special emphasis is given to raster based systems.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

**GEOG 536 Geospatial Field Methods (3 crs)**
Prerequisite: GEOG 335/GEOG 535
Consent: Instructor Consent Required
- Cross-listed with GEOG 336. Credit may not be earned in both courses.

Project-based hands-on learning will teach students field data collection techniques/methods for those interested in a career involving geospatial issues. Traditional and advanced geospatial technology are implemented in the course.

Attributes: Field Trip(s) Required
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

**GEOG 537 Geographic Information Systems II (3 crs)**
Prerequisite: GEOG 335/GEOG 535
- Cross-listed with GEOG 337. Credit may not be earned in both courses.

This course expands directly on knowledge gained in Geog 335, Geographic Information Systems I. Focus will be on gaining additional technical skills and applying them to answer more in-depth geospatial questions.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

**GEOG 538 Remote Sensing of the Environment (3 crs)**
- Cross-listed with GEOG 338. Credit may not be earned in both courses.

Descriptive interpretation of remote-sensing images from ground, aerial, and space platforms.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

**GEOG 550 Soils and the Environment (4 crs)**
Consent: Instructor Consent Required
- Cross-listed with GEOG 350. Credit may not be earned in both courses.

Study of soil properties, formation processes, and classification with emphasis on fieldwork, application of soil information to resource management and land use, and technical report writing.

Attributes: Field Trip(s) Required, Special Course Fee Required
Grading Basis: A-F Grades Only
Lecture/Discussion Hours: 2
Lab/Studio Hours: 4

**GEOG 558 LiDAR Analysis & Applications (3 crs)**
Prerequisite: GEOG 535 and GEOG 538.
Introduction to the visualization, processing & use of airborne & terrestrial LiDAR data for applications in environmental & socio-cultural settings.

Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

**GEOG 579 Geography of Wisconsin (3 crs)**
- Cross-listed with GEOG 379. Credit may not be earned in both courses.

A geographic analysis of Wisconsin and its people, with emphasis on cultural and environmental characteristics, patterns of land use, and changing ways of life.

Attributes: Field Trip(s) Required, Special Course Fee Required
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

**GEOG 590 Geospatial Applications of UAS (3 crs)**
Prerequisite: GEOG 335
- GEOG 338 is recommended prior to enrollment in this course.

This course introduces Unoccupied/Unmanned Aerial Systems (UAS) and their applications in the natural and built environment. Topics include UAS sensors and platforms, the ethics of UAS use, sensors calibration and boresighting, flight planning and flying of UAS, data processing software, data quality and accuracy, and the production of ortho-rectified imagery, multispectral imagery, digital terrain, surface models, and other geospatial deliverables.

Attributes: Field Trip(s) Required
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
GEOG 595 Directed Studies (1-3 crs)
Consent: Department Consent Required
- Cross-listed with GEOG 395.

Directed study of a geographic problem approved by the supervising instructor and the Department Chair.
Repeat: Course may be repeated
Grading Basis: No S/U Grade Option

GEOG 635 Geographic Information Systems III (3 crs)
Prerequisite: GEOG 335/GEOG 535
- Cross-listed with GEOG 435. Credit may not be earned in both courses.
  No credit if taken after GEOG 491 when offered as Advanced Geographic Information Systems.

This course will advance students’ knowledge of theoretical concepts and skills in geographic information systems in science. Emphasis will be placed on application of these concepts and skills in geospatial analysis.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 655 Web Geographic Information Systems (3 crs)
Prerequisite: GEOG 335/GEOG 535
- Cross-listed with GEOG 455. Credit may not be earned in both courses.

An introduction to Web GIS, the programming concepts underpinning construction and implementation of high quality web and mobile solutions.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 797 Independent Study/Graduate (1-3 crs)
Consent: Department Consent Required
An intensive study of a geographic topic resulting in a paper suitable for publication.
Repeat: Course may be repeated
Grading Basis: No S/U Grade Option

Anthropology

ANTH 161 Introduction to Cultural Anthropology (3 crs)
- Credit may not be earned in both ANTH 161 and AIS 161.

Culture as the human means of environmental adaptation. Explores cross-cultural regularities and the range of variation in human behavior. Comparison of widely different economic, social, political, and religious systems.
Attributes: Foreign Culture, GE IIIA Social Science-Anthropology, LE-K2 Social Sciences
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 165 Introduction to Physical Anthropology (3 crs)
Investigates human biocultural evolution, through comparative analysis of fossils, contemporary primates, and genetics.
Attributes: GE IIIA Social Science-Anthropology
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 169 Introduction to Archaeology (3 crs)
Human cultural prehistory as inferred from archaeological evidence, from the earliest Pleistocene cultures to the development of urban life. Explores archaeological methods and techniques.
Attributes: GE IIIA Social Science-Anthropology, LE-I1 Integration, LE-K2 Social Sciences
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 234 Museum Curation (3 crs)
- No credit if take after ANTH 291 when offered as Museum Curation.

Provides students with the necessary background to curate museum collections.
Attributes: LE-S3 Creativity, Field Trip(s) Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 291 Special Topics (1-3 crs)
Topics will vary depending on interests of students and faculty.

ANTH 312 Space, Society, Subject (3 crs)
Prerequisite: Sophomore standing or instructor consent
- Credit may not be earned in both ANTH 312 and GEOG 312.

Broad introduction to social theory in anthropology and geography with an emphasis on contemporary theoretical approaches to social, spatial, and cultural dynamics and their intersections.
Attributes: Cultural Diversity 1 cr., GE IIIA Social Science-Anthropology, LE-DDIV Design for Diversity, LE-K2 Social Sciences, LE-R1 Equity, Diversity, and Inclusivity, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 3
Seminar Hours: 0

ANTH 313 Culture and Transnational Dynamics (3 crs)
Prerequisite: Minimum sophomore standing or instructor consent. Credit may not be earned in both GEOG/ANTH 313/S13 and GEOG/ANTH 351.
- Credit may not be earned in both ANTH 313 and GEOG 313.

Critical discussion of conceptual approaches to cultural processes, differences, and encounters from a transnational perspective.
Attributes: Foreign Culture, Cultural Diversity 1 cr., GE IIIA Social Science-Anthropology, LE-K2 Social Sciences, LE-R2 Global Perspectives, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
ANTH 315 Language in Culture and Society (3 crs)
Prerequisite: Minimum junior standing or consent of instructor
Examination of the rules and patterns for speech behavior in a variety of socio-cultural formations. Language as expressive and formative of social status, social identity, and group membership. Study of multilingualism and language planning.
Attributes: Foreign Culture, Cultural Diversity 1 cr., GE IIIA Social Science-Anthropology, LE-DDIV Design for Diversity, LE-R1 Equity, Diversity, and Inclusivity, LE-R2 Global Perspectives, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 325 North American Indians (3 crs)
• Credit may not be earned in both ANTH 325 and AIS 325. Previous completion of ANTH 161/AIS 161 is strongly recommended prior to enrollment in this course.
Comparative analysis, by culture area, of traditional American Indian economies, social and political organization, religion and philosophy. Impact of European colonization and control on traditional cultures.
Attributes: Cultural Diversity 3 cr., GE III Social Science
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 351 Cross-Cultural Dynamics (3 crs)
• Credit may not be earned in both ANTH 351 and GEOG 351.
Preparation for study, work, or travel abroad. Study of cultural differences in values, customs, and communication styles. Consideration of the process of adjustment to a foreign culture and the problems of intercultural communication.
Attributes: Foreign Culture, GE IIIA Social Science-Anthropology
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 355 Peoples of Africa (3 crs)
Comparative study of traditional sub-Saharan African forms of social groupings, political organization, and religions and philosophies. Consideration of the impact of economic development, neocolonialism, and globalization on traditional cultures.
Attributes: Foreign Culture, GE IIIA Social Science-Anthropology
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 356 Women in Cross-Cultural Perspective (3 crs)
• Credit may not be earned in both ANTH 356 and WGSS 356.
Study of women's domestic, social, economic, political, and religious roles in a broad range of the world's societies. Examination of the historical development of women's roles and contemporary changes.
Attributes: Foreign Culture, GE IIIA Social Science-Anthropology
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 395 Directed Studies (1-3 crs)
Prerequisite: Six credits in Anthropology. Minimum resident GPA of 2.50. Consent: Department Consent Required
Directed study of an anthropological problem approved by the supervising instructor and department chair.
Repeat: Course may be repeated

ANTH 399 Independent Study - Juniors (1-3 crs)
Prerequisite: Minimum junior standing. Consent: Department Consent Required
An intensive study of an anthropological topic resulting in a quality paper or report.
Repeat: Course may be repeated

ANTH 422 Anthropology of Law (3 crs)
Prerequisite: Minimum junior standing.
The scientific study of comparative law. Examines and analyzes a wide variety of legal systems, plus theories of law, legal change, change of legal systems, and justice.
Attributes: GE III Social Science, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 432 Anthropological Fieldwork Methods and Research Design (3 crs)
Prerequisite: ANTH 161; 300-level cultural anthropology course or may be taken concurrently (ANTH 315, ANTH 325, ANTH 345, ANTH 351, ANTH 355 or ANTH 356).
Consent: Instructor Consent Required
This seminar offers a broad introduction to the subject of fieldwork in sociocultural anthropology, with the goal of training students to undertake independent research. Foci include methodology, field experience, and outstanding research examples.
Attributes: Foreign Culture, Undergraduate/Graduate Offering
Grading Basis: A-F Grades Only
Lab/Studio Hours: 0
Seminar Hours: 3

ANTH 463 Religion and Culture (3 crs)
Prerequisite: ANTH 161/AIS 161
Examination of the nature of human religious expression in cross-cultural contexts. Focus on the ways that people use myths, symbols, and rituals in both oral and written traditions.
Attributes: Cultural Diversity 1 cr., GE IIIA Social Science-Anthropology
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 491 Special Topics (1-3 crs)
Prerequisite: Minimum junior standing.
Topics will vary depending on interests of students and faculty. Proposed topics include American Indian religion and philosophy.
Repeat: Course may be repeated for a maximum of 9 credits
ANTH 499 Independent Study - Seniors (1-3 crs)
Prerequisite: Minimum senior standing.
Consent: Department Consent Required
An intensive study of an anthropological topic resulting in a quality paper or report.
Repeat: Course may be repeated

ANTH 512 Space, Society, Subject (3 crs)
- Cross-listed with ANTH/GEOG 312/512. Credit may only be earned in one of these courses.

Broad introduction to social theory in anthropology and geography with an emphasis on contemporary theoretical approaches to social, spatial, and cultural dynamics and their intersections.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Seminar Hours: 0

ANTH 513 Culture and Transnational Dynamics (3 crs)
Prerequisite: Credit may not be earned in both ANTH/GEOG 313/513 and ANTH/GEOG 351.
- Cross-listed with ANTH/GEOG 313/513. Credit may only be earned in one of these courses.

Critical discussion of conceptual approaches to cultural processes, differences, and encounters from a transnational perspective.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 515 Language in Culture and Society (3 crs)
- Cross-listed with ANTH 315. Credit may not be earned in both courses.

Examination of the rules and patterns for speech behavior in a variety of socio-cultural formations. Language as expressive and formative of social status, social identity, and group membership. Study of multilingualism and language planning.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 556 Women in Cross-Cultural Perspective (3 crs)
- Cross-listed with WGSS/ANTH 356/556. Credit may only be earned in one of these courses.

Study of women's domestic, social, economic, political, and religious roles in a broad range of the world's societies. Examination of the historical development of women's roles and contemporary changes.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 622 Anthropology of Law (3 crs)
- Cross-listed with ANTH 422. Credit may not be earned in both courses.
The scientific study of comparative law. Examines and analyzes a wide variety of legal systems, plus theories of law, legal change, change of legal systems, and justice.
Grading Basis: No S/U Grade Option
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

ANTH 632 Anthropological Fieldwork Methods and Research Design (3 crs)
Prerequisite: ANTH 161; 300-level cultural anthropology course or may be taken concurrently (ANTH 315, ANTH 325, ANTH 345, ANTH 351, ANTH 355 or ANTH 356).
Consent: Instructor Consent Required
- Cross-listed with ANTH 432. Credit may not be earned in both courses.

This seminar offers a broad introduction to the subject of fieldwork in sociocultural anthropology, with the goal of training students to undertake independent research. Foci include methodology, field experience, and outstanding research examples.
Grading Basis: A-F Grades Only
Lab/Studio Hours: 0
Seminar Hours: 3