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

With training in both the natural and social sciences, geographers have a wide range of career opportunities in public and private sectors. Geographers find work in urban 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, Ryan Weichelt, weicherd@uwec.edu, or Ari Anand, anandas@uwec.edu

Internship Opportunities

Contact: Christina Hupy, Internship Coordinator, hupycm@uwec.edu

Five Advanced Geography Approaches

Two semesters BEFORE graduation, students must meet with their Geography adviser to certify their selection of the courses needed for all Geography majors and minors.

Physical Geography Courses

- GEOG 304 Introduction to Geomorphology 4
- GEOG 340 Climatology 3
- GEOG 345 Quaternary Environments 3
- GEOG 350 Soils and the Environment 4
- GEOG 355 Biogeography 4
- GEOG 363 Watershed Analysis 4
- GEOG 364 Fluvial Processes and Landforms 4

Human Geography Courses

- GEOG 155 Economic Geography 3
- GEOG 188 Cultural Landscapes of North America 3
- GEOG 322 Native Geographies 3
- GEOG 352 Business Geographics 3
- GEOG 366 Geography International Immersion Experience 1-3
- GEOG 367 Landscape Analysis: Cultural 3
- GEOG 369 Geography of Food 3
- GEOG 446 Political Geography 3
- GEOG 470 Urban Geography 3

Human-Environmental Geography Courses

- GEOG 270 Land Use Issues and Problems 3
- GEOG 341 Weather and Society 3
- GEOG 361 Environmental Hazards 3
- GEOG 365 Tourism Geographies 3
- GEOG 375 Environmental Quality 3
- GEOG 378 International Environmental Problems and Policy 3
- GEOG 388 Military Geography 3
- GEOG 445 Historical Geography 3

Regional Geography Courses

- GEOG 301 Geography of Western Europe 3
- GEOG 308 Geography of Russia and Eastern Europe 3
- GEOG 319 Geography of the Middle East and North Africa 3
- GEOG 321 Geography of Latin America 3
- GEOG 325 Geography of the United States and Canada 3
- GEOG 379 Geography of Wisconsin 3

Geography Techniques Courses

- GEOG 280 Cartographic Design 3
- GEOG 335 Geographic Information Systems I 3
- GEOG 336 Geospatial Field Methods 3
- GEOG 337 Geographic Information Systems II 3
- GEOG 338 Remote Sensing of the Environment 3
- GEOG 339 Computer Mapping 3
- GEOG 370 Quantitative Methods in Geography 3
- GEOG 435 Geographic Information Systems III 3
- GEOG 438 Advanced Remote Sensing 3
- GEOG 455 Web Geographic Information Systems 3

Other Geography Courses

(can be applied to any of the five approaches with the consent of the adviser):

- GEOG 351 Cross-Cultural Dynamics 3
- GEOG 368 Geography Field Seminar 3
- GEOG 395 Directed Studies 1-3
- GEOG 399 Independent Study - Juniors 1-3
- GEOG 491 Special Topics 1-3
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
Paul Kaldjian, Chair
Ari Anand
Jeff DeGrave
Douglas Faulkner
Martin Goettl
Sean Hartnett
Christina Hupy
Joseph Hupy
Harry Jol
Garry Running
Daniel Strouthes
Ingolf Vogeler
Ryan Weichelt
Cyril Wilson
Ezra Zeitler

Majors
- Comprehensive Major: Geography, Environmental Geography Emphasis - B.A./B.S.
- Comprehensive Major: Geography, Transnational Geographies Emphasis - B.A./B.S.
- Major: Geography - B.A./B.S.
- Comprehensive Major: Geospatial Analysis and Technology - B.A./B.S.

Minors
- Minor: Geography, Teaching

Certificates
- Certificate: Geospatial
- Certificate: Geospatial in Geographic Information Systems
- Certificate: Geospatial in Remote Sensing
- Certificate: Geospatial in Mapping

Geography
GEOG 104 The Physical Environment (4 crs)
Prerequisite: MATH 20, or two years of college-preparatory algebra, or a suitable mathematics placement test score.
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 IIIC Social Science-Geography, LE-K2 Social Sciences, LE-R2 Global Perspectives
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)
Classical location models of production, exchange, consumption, and development with special emphasis on the space economy of the United States.
Attributes: GE IIIC Social Science-Geography
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 178 Conservation of the Environment (3 crs)
Prerequisite: No credit if taken 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 IIIC 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.
An introduction to the foundations, principles and primary geospatial techniques and analyses used in geography.
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 270 Land Use Issues and Problems (3 crs)
Basic concepts and philosophies of land use, including techniques and methodology of land use analysis.
Attributes: Field Trip(s) Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 280 Cartographic Design (3 crs)
- GEOG 200 is recommended prior to enrollment in this course.
The elements of cartography. Emphasis on the graphic expression of geographical and statistical data for reproduction on maps.
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 301 Geography of Western Europe (3 crs)
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.
Attributes: Foreign Culture, GE IIIC Social Science-Geography
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0

GEOG 304 Introduction to Geomorphology (4 crs)
Prerequisite: GEOG 104 or GEOL 106 or GEOL 110 or GEOL 115.
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.
Attributes: Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 2
Lab/Studio Hours: 4

GEOG 308 Geography of Russia and Eastern Europe (3 crs)
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.
Attributes: Foreign Culture, GE IIIC Social Science-Geography
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
GEOG 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-K2 Social Sciences, LE-R1 Equity, Diversity, and Inclusivity, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 1
Seminar Hours: 2

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, 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
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, Special Course Fee 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 IIC Natural Science-Geography, 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: 4

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 355 Biogeography (4 crs)
Prerequisite: GEOG 104
The study of the past and present geographic distributions of organisms, primarily plants, from historical, ecological, and regional perspectives. Emphasis is on principles and methods. Regional focus on the Great Lakes.
Attributes: Field Trip(s) Required
Lecture/Discussion Hours: 2
Lab/Studio Hours: 4

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
Grading Basis: A-F Grades Only
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, Field Trip(s) Required, Special Course Fee Required
Lecture/Discussion Hours: 3
Lab/Studio Hours: 0
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Consent</th>
<th>Description</th>
<th>Attributes</th>
<th>Lecture/Discussion Hours</th>
<th>Lab/Studio Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 363</td>
<td>Watershed Analysis (4 crs)</td>
<td>4</td>
<td>GEOG 104 or GEOL 110 or GEOL 115; and GEOG 304 or GEOL 312.</td>
<td>Instructor Consent Required</td>
<td>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.</td>
<td>Field Trip(s) Required, Special Course Fee Required</td>
<td>3</td>
<td>2</td>
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<tr>
<td>GEOG 364</td>
<td>Fluvial Processes and Landforms (4 crs)</td>
<td>4</td>
<td>GEOG 104 or GEOL 110 or GEOL 115; and GEOG 304 or GEOL 312.</td>
<td>Instructor Consent Required</td>
<td>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.</td>
<td>Field Trip(s) Required, Special Course Fee Required</td>
<td>3</td>
<td>2</td>
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<tr>
<td>GEOG 365</td>
<td>Tourism Geographies (3 crs)</td>
<td>3</td>
<td>Minimum sophomore standing.</td>
<td></td>
<td>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.</td>
<td></td>
<td>3</td>
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</tr>
<tr>
<td>GEOG 366</td>
<td>Geography International Immersion Experience (1-3 crs)</td>
<td>1-3</td>
<td>Instructor Consent Required</td>
<td>Preparatory prerequisite course may be required.</td>
<td>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.</td>
<td>Foreign Culture, Field Trip(s) Required, Special Course Fee Required</td>
<td>Varies by Term/Section</td>
<td>0</td>
</tr>
<tr>
<td>GEOG 367</td>
<td>Landscape Analysis: Cultural (3 crs)</td>
<td>3</td>
<td>Minimum sophomore standing.</td>
<td></td>
<td>Geographic analysis of cultural landscapes by means of field experiences.</td>
<td>GE IIIC Social Science-Geography, Field Trip(s) Required</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>GEOG 368</td>
<td>Geography Field Seminar (3 crs)</td>
<td>3</td>
<td>Limited to geography majors and minors or consent of instructor. Minimum junior standing.</td>
<td></td>
<td>Place-based analysis using geographic methods and field investigations. Field sites and research topics will vary from semester to semester.</td>
<td>Field Trip(s) Required, Special Course Fee Required Varies by Term/Section</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>GEOG 369</td>
<td>Geography of Food (3 crs)</td>
<td>3</td>
<td>Minimum sophomore standing.</td>
<td>A geography course is recommended prior to enrollment in this course.</td>
<td>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.</td>
<td>Foreign Culture, GE IIIC Social Science-Geography, Field Trip(s) Required</td>
<td>3</td>
<td>0</td>
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<tr>
<td>GEOG 370</td>
<td>Quantitative Methods in Geography (3 crs)</td>
<td>3</td>
<td>GEOG 335. Limited to geography majors and minors.</td>
<td></td>
<td>An introduction to spatial/quantitative methods in geography. Topics include central tendency, mean center, probability, regression, spatial autocorrelation, and geographically weighted regression.</td>
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<td>3</td>
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</tr>
<tr>
<td>GEOG 375</td>
<td>Environmental Quality (3 crs)</td>
<td>3</td>
<td>GEOG 178 or BIOL 180 is recommended prior to enrollment in this course.</td>
<td></td>
<td>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.</td>
<td>GE IIIC Social Science-Geography, Special Course Fee Required</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>GEOG 377</td>
<td>U.S. Environmental and Sustainability Policy (3 crs)</td>
<td>3</td>
<td>Credit may not be earned in both ENV 377 and GEOG 377.</td>
<td></td>
<td>Students will study U.S. environmental and sustainability law and policy to assess the roles of science, key actors, and values in policymaking.</td>
<td>GE III Social Science-Interdisciplinary Study, LE-K2 Social Sciences, LE-R3 Civic and Environmental Issues, Field Trip(s) Required</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>
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
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 IIIC Social Science-Geography, 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 Unmanned Aerial Systems (3 crs)
Consent: Instructor Consent Required
Teaches how best to utilize Unmanned Aerial Systems (UAS) as a means to gather geospatial data. Safety and ‘drone ethics’ will also be stressed throughout the course.
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: 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.
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

GEOG 438 Advanced Remote Sensing (3 crs)
Prerequisite: GEOG 338
Explores the theory and methodology of applied remote sensing. Focus is on the principles of electromagnetic radiation, interaction of solar radiation with Earth’s atmosphere and various surface classes, remote sensing systems, and digital image processing.
Attributes: Field Trip(s) Required
Lecture/Discussion Hours: 2
Lab/Studio Hours: 2

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 Special Topics (1-3 crs)
Prerequisite: Limited to geography majors and minors, or consent of instructor.
No more than six credits may be applied to the geography major or minor.
Consent: Instructor Consent Required
Special topics will vary, depending on interests of students and faculty. Topics will include specific micro-regions and systematic approaches in geography.
Attributes: Special Course Fee Required Varies by Term/Section
Repeat: Course may be repeated

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 and 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 GEOG 312 AND ANTH 312/ANTH 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: 1
Seminar Hours: 2

GEOG 521 Geography of Latin America (3 crs)
• Cross-listed with GEOG 321 and LAS 321/LAS 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.
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, Special Course Fee 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. GEOG
200 is recommended prior to enrollment in this course.

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 Unmanned Aerial Systems (3 crs)

Teaches how best to utilize Unmanned Aerial Systems (UAS) as a means
to gather geospatial data. Safety and ‘drone ethics’ will also be stressed
throughout the course.

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
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-K2 Social Sciences, LE-R1 Equity, Diversity, and Inclusivity, Undergraduate/Graduate Offering
Lecture/Discussion Hours: 1
Seminar Hours: 2

**ANTH 315 Language in Culture and Society (3 crs)**
Examination of the rules and patterns for speech behavior in a variety of cultures. Language as an expression of social status, gender, and group membership. Study of multilingualism and language planning.
Attributes: Foreign Culture, Cultural Diversity 1 cr., GE III Social Science-Anthropology, 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 IIIA Social Science-Anthropology
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 WMNS 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, Undergraduate/Graduate Offering
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 IIIA Social Science-Anthropology, 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 312 AND GEOG 312/GEOG 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: 1
Seminar Hours: 2

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 cultures. Language as an expression of social status, gender, 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 ANTH 356 AND WMNS 356/WMNS 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