

GEOGRAPHY AND URBAN-REGIONAL STUDIES

Professor

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This multidisciplinary minor is designed to explore aspects of the human/environment interaction with four unique focuses to choose from: biodiversity and humans, human influences on the environment, earth systems, or community development.

The curriculum includes three required classes: Physical Geography, Introduction to Anthropology and a human geography course plus, nine hours (three courses), from an approved curriculum, drawing from anthropology, geography, environmental studies, history, political science, or sociology to complete an option focused on biodiversity and humans, human influences on the environment, earth systems, or community development.

- Minor in Geography (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences-education/department-geography/general-geography-minor/>)

GEOG 1503 Physical Geography 3 s.h.

An introductory analysis of selected elements of the natural habitat and their geographic distribution. Includes processes involved in weather, climates, soils, vegetation, and landforms.

Gen Ed: Natural Science, Natural Science 2024.

GEOG 1503H Honors Physical Geography 3 s.h.

An introductory analysis of selected elements of the natural habitat and their geographic distribution. Includes processes involved in weather, climates, soils, vegetation, and landforms.

Gen Ed: Natural Science, Natural Science 2024.

GEOG 1503L Physical Geography Laboratory 1 s.h.

Observation, collection and analysis of data pertaining to the Earth's weather and climate, surface landforms, drainage systems, soils, vegetation and changing global environmental conditions. In-class labs, local field excursions, and web-based assignments enable students to investigate these phenomena using the scientific method. The class meets two hours each week. Optional lab to accompany GEOG 1503.

Prereq.: GEOG 1503 or concurrent with GEOG 1503.

Gen Ed: Natural Science Lab.

GEOG 2626 World Geography 3 s.h.

A comparative study of representative regions of the world. Attention is focused on an examination of the physical, cultural, social and political attributes of selected regions.

Gen Ed: Social and Behavioral Science, International Perspect 2024, Social Science 2024, Social and Pers Awareness 2024.

GEOG 2626H Honors World Geography 3 s.h.

A comparative study of representative regions of the world. Attention is focused on an examination of the physical, cultural, social and political attributes of selected regions.

Gen Ed: Social and Behavioral Science, International Perspect 2024, Social Science 2024, Social and Pers Awareness 2024.

GEOG 2630 Weather 3 s.h.

An examination of basic weather elements, their interrelationships and the natural laws that govern them. Focus is on both global scale atmospheric processes and localized factors that influence weather conditions and patterns.

Gen Ed: Natural Science, Natural Science 2024.

GEOG 2630H Honors Weather 3 s.h.

An examination of basic weather elements, their interrelationships and the natural laws that govern them. Focus is on both global scale atmospheric processes and localized factors that influence weather conditions and patterns.

Gen Ed: Natural Science, Natural Science 2024.

GEOG 2630L Weather Lab 1 s.h.

Students observe, collect and analyze atmospheric data, and determine and predict weather conditions. Atmospheric laws and meteorological principles, concepts, and processes are investigated using the scientific method. Weekly investigations are undertaken in this hybrid lab encompassing in-class and online instructions. The class meets in person as needed for guidance.

Optional lab to accompany GEOG 2630: Weather.

Prereq.: GEOG 2630 or concurrently with GEOG 2630.

Gen Ed: Natural Science Lab.

GEOG 2640 Human Geography 3 s.h.

An examination of the place to place variation in people's utilization of the earth. Topics include the distribution of people, spatial variations in culture, urbanization and politicization of space.

Gen Ed: Social and Behavioral Science, International Perspect 2024, Social Science 2024, Social and Pers Awareness 2024.

GEOG 2640H Honors Human Geography 3 s.h.

An examination of the place to place variation in people's utilization of the earth. Topics include the distribution of people, spatial variations in culture, urbanization and politicization of space.

Gen Ed: Social and Behavioral Science, International Perspect 2024, Social Science 2024, Social and Pers Awareness 2024.

GEOG 3703 Human Impacts on the Environment 3 s.h.

Focus is on the interaction between natural systems and human activities that results in environmental change and degradation of the Earth's atmosphere, waters, soil, vegetation, and animal life. Societal conflicts, mitigation, conservation, and sustainable resource strategies are discussed.

Prereq.: GEOG 1503 or GEOL 1504 or GEOL 1505 or ENST 1500 or ENST 2600 or HIST 3774.

GEOG 3730 Global Climates 3 s.h.

Focus is on the scientific foundations of Earth's climate system; basic understanding of climate behavior, patterns, variability and change; contributions of human activities to climate change; and societal vulnerabilities and responses to climate variability and change.

Prereq.: GEOG 1503 or GEOG 2630 or permission of instructor.

GEOG 3733 Severe and Hazardous Weather 3 s.h.

Focus is on severe weather that may threaten harm to life and/or property. The scientific underpinning of severe weather types and their geographic distributions, hazards, and mitigation measures. Topics include extratropical cyclones; thunderstorms; lightning; tornadoes; hurricanes; floods; droughts; cold and heat waves; blizzards; snow, ice and wind storms; and El Nino/La Nina.

Prereq.: GEOG 1503 or GEOG 2630.

GEOG 3735 Water in the Earth System 3 s.h.

Focus is on the cycling of water within the Earth system. Covers the unique properties of water, the global water cycle, the distribution of water within the various reservoirs of the hydrosphere, the role of water in energy transfer and systems interactions, and human impacts on water resources.

Prereq.: GEOG 1503 or GEOG 2630; or GEOL 1504 or GEOL 1505 or GEOL 2602; or ENST 1500 or ENST 2600.

GEOG 3737 Soils and Land Use 3 s.h.

Examination of soil characteristics influencing land use planning and development. Topics include the basic physical and chemical properties of soil, soil water, the soil-forming factors, the use and interpretation of county soil reports, and soil characteristics beneficial and detrimental to selected land use practices. Participation in field trips is required. Restrictions: high school chemistry recommended.

Prereq.: GEOG 1503; or GEOL 1504 or GEOL 1505; or ENST 2600.

GEOG 4825 Geography Internship 1-3 s.h.

Practical application of geographic principles and skills in the public or private workplace. A minimum of 40 clock hours per credit hour per semester is required in the work setting. An activities log must be maintained and oral and written reports of the internship experience are required. May be repeated for up to 6 s.h. By permit only.

Prereq.: 3 s.h. upper-division geography.

GEOG 4890 Geography Capstone 3 s.h.

Investigation of research topics, methods, and issues in geography. Students select a geographic research topic, collect and analyze data using appropriate methods and present findings in oral and written form.

Prereq.: Senior standing in Geography.

Gen Ed: Capstone 2024.

GEOG 4890C CE Geography Capstone 3 s.h.

Investigation of research topics, methods, and issues in geography. Students select a geographic research topic, collect and analyze data using appropriate methods and present findings in oral and written form.

Prereq.: Senior standing in Geography.

Gen Ed: Capstone 2024.

GEOG 5802 Biogeography 3 s.h.

The distribution and scale of flora and fauna and the factors and processes that produce these patterns. Topics also include disturbance events, dispersal, colonization and invasion, and biological hierarchy.

Prereq.: BIOL 1505 or BIOL 2602 or GEOG 1503.

GEOG 5820 Directed Research in Geography 1-3 s.h.

An in-depth study of a specific problem in geography. The problem is dependent upon the student's interest and competence, availability of faculty supervision and department equipment. May be repeated up to 3 s.h.

Prereq.: 20 s.h. of Geography.

GEOG 5850 International Area Study 3 s.h.

A course in the geography and history of a selected international area with emphasis on cultural development by traveling in the selected region. The class and travel is supervised by the geography and/or history faculty. The course grade is based upon a term paper which must be submitted within 60 days after the end of the course.

Prereq.: permission of the chairperson.