### Core I
- **Symbolic and Oral Communication (9–19 hours, 3–5 courses)**
  - English Composition–6 hours, 2 courses
  - Mathematics–3 hours, 1 course
  - Foreign Language–0–10 hours, 2 courses in the same language, (which can be met by successfully completing two years of the same foreign language in high school)
  - Other (courses such as communication, logic or public speaking)

### Core II
- **Natural Science (7 hours, 2 courses)**
  - Courses must be taken from different disciplines in the biological and/or physical sciences; one of which must include a laboratory.

### Core III
- **Social Science (6 hours, 2 courses)**
  - One course must be P SC 1113, “American Federal Government”

### Core IV
- **Humanities (12 hours, 4 courses)**
  - Understanding Artistic Forms–3 hours, 1 course
  - Western Civilization and Culture–6 hours, 2 courses, including HIST 1483 or HIST 1493
  - Non-Western Cultures–1 hour, 1 course

---

**Senior Capstone Experience (3 hours, 1 course)**

---

**NOTE:** No more than 52 hours of Geography coursework may be taken to fulfill the 124-126 minimum total credit hours required.
Geography—2206B—Page 2

**COURSES IN GEOGRAPHY**

1101 Human Geography. An introduction to the humanized Earth; specifically, to the geography of population, the global pattern of cultures and such affiliated elements as language, religion, technology, and political organization, and to the physical expression of those cultures in rural and urban landscapes. (F, S) [II-LAB]

1113 The Language of Maps. How to read, analyze and interpret graphic information symbolized on a wide variety of maps. Topics include: scale, location, distance and direction, navigation, interpreting human and physical landscapes, map propaganda, maps in the media and comparisons of maps in western and non-western societies. (F-L)

1213 Economic Geography. An introduction to the physical Earth, including Earth materials, landform processes and resultant landforms, Earth-sun relations, weather, climate, the water cycle, natural vegetation, and soil types. Emphasis is placed on the inter-relationships among these phenomena. (F, S, Su) [III-LAB]

2453 Introduction to Computer Mapping and Analysis. An introductory survey of computer applications in mapping and map analysis. Designed to provide fundamental concepts and techniques necessary for visual presentation, analysis, and interpretation of geographic data using desktop mapping technologies. The course covers the nature of geographic data, desktop mapping, and map analysis. (F)

2603 World Regional Geography. A broad survey of the world’s major culture regions emphasizing basic physical, cultural, economic, and political patterns, as well as the processes that have created those patterns. Emphasis on economic development, ethnic conflict, and environmental deterioration, as well as on the changing role of the United States. (F, S, Su) [III-LAB]

3001 Dialogue on the Discipline of Geography. Prerequisite: 1101, 1114 and 1213; or permission of instructor. Introduction to the discipline of geography, nature of geographical research and the interests and ideas of departmental faculty and students. (F, S, Su) [IV-WC]

3023 Principles of Physical Geography. Prerequisite: Upper division standing or permission of instructor. An introduction to the fundamental physical processes, concepts, and regional characteristics of Earth systems. Students should gain a broad, comprehensive but focused viewpoint if lithospheric, biospheric and atmospheric processes as well as the interdependence among them. (F, S)

3031 Globalization and the Environment. Prerequisite: junior standing or permission of instructor. Explores the complex assemblage of economic, political, and cultural processes popularly known as “globalization” and examines their implications for resource use and the environment. A central objective is to facilitate critical thinking on global environmental issues and enable students to challenge the increasingly polarized rhetoric concerning economic growth and the environment. (F)

3213 Principles of Human Geography. Prerequisite: upper-division standing or permission of instructor. Introduction to the distribution of humans and their activities on the surface of the earth and the processes that generate these distributions. Special attention given to the influence of economy, culture, and politics in shaping the land and the spatial character and organization of human life. A key theme is the relationship of human diversity and places to the environment. (F

3243 Principles of Economic Geography. Prerequisite: upper division standing or permission of instructor. An examination of the distribution of economic activities and the processes that generate them. Special attention is given to principles of economic location and their application to patterns of production, consumption, and exchange. Students will learn the theories and methods used by geographers in studying economic activities from the local to the global scale. (F, S)

3253 Environmental Conservation. Contemporary environmental issues and problems. Problems of population growth, food production, energy shortages, resource depletion and pollution impact on the environment will be stressed. Conservation management policies will be viewed at both local and national scales. (F, S) [III-SS]

3355 Introduction to Cartography. A basic survey of maps: their properties, conception and design, construction, compilation and editing, production, and use, with exercises in mapmaking. (F)

3513 Political Geography. A survey, stressing current geopolitical conflicts. Special topics include the Middle East, the European and the Third World, Deutsch’s World Island. Special attention is given to the activities of conservation management policies will be viewed at both local and national scales. (F, S) [III-SS]

3563 Geography of Natural Resources. Definition and evaluation of mineral, agricultural, forest, and water resources, including their variation over time, between cultures, and as affected by technological innovation. Emphasis is placed on the distribution, technologies, institutions, and landscapes of natural resources in modern economies. (F, S)

3613 Geography of Oklahoma. A study of the physical regions, populations, distribution, economic development, and environmental problems affecting the state. (F)

G1633 Historical Geography of the United States. America’s changing geography is considered under three headings: the Colonial Pattern, the Humid East, and the Dry West. Special attention is given to those human activities that have shaped successive cultural landscapes and to those patterns that persist to give present day regions their distinctive character. (F, S) [IV-WC]

3890 Selected Studies in Geography. 1 to 3 hours. Prerequisite: permission of instructor. May be repeated with change of subject matter; maximum credit nine hours. To be used for special interest courses and occasional (irregularly scheduled) courses of special concern and use for the individual students most interested in these areas. (F, S) [IV-WC]

G3924 Analytic Methods in Geography. Prerequisite: Mathematics 1012 or satisfactory score on Math placement test. Introduces students to methods of organizing, classifying and describing geographic data, together with methods of interpreting spatial relationships and aerial association. (F, S)

3930 Field Techniques for Geographers. 1 to 4 hours. Prerequisite: 12 hours of geography or permission of instructor. May be repeated with change of subject matter; maximum credit six hours. Basic methods of data acquisition: surveying, measuring, sampling, sketching, and mapping. Individual and group projects may be required. (Irreg.)

3933 Interpretation of Aerial Photographs. Prerequisite: 1114 or permission. An introduction to the photographic inventory of physical and cultural land resources including current processes of change, and to the use of aerial photographs in evaluating present land use, potential alternatives, and associated risks. (Irreg.)

4003 The Global City and Planning Issues (Crosslisted with Regional and City Planning 4003; Slashed with 5003). Prerequisite: English 1213 and junior standing. An introduction to the concept of globalization and its effects on cities, and the city planning issues related to those effects. Characteristics, theories, and strategies of city development are reviewed. Cities are observed from several perspectives: natural and built environment, governance, society, economics, and history. No student may earn credit for both 4003 and 5003. (F)

G4203 Geomorphology. Prerequisite: 1114, or comparable work in earth sciences. Development and modification of land-surface form by atmospheric, glacial, fluvial, mass-wasting, volcanic and tectonic agents. Emphasis is placed on spatial aspects of the interactions at the interfaces of land, air and water. (Irreg.)

8243 Geographic Information Systems. Prerequisite: junior standing or permission of instructor. A survey of the Middle East and central, south, southeast and east Asia. The course includes overviews of the continent’s physical, social, and economic characteristics, but it treats primarily of the evolution of Asia’s contemporary cultural landscapes as an expression of Asian cultures. (Spi) [IV-WV]

4253 Latin America Geography. Prerequisite: junior standing or permission of instructor. Exploration of the ways in which natural, cultural, and historical processes have combined to shape a unique region of the world. Special emphasis will be placed on the legacies of colonialism, cultural landscapes, social movements, and environmental degradation and resource conservation. (Sp) [IV-WC]

G4273 Regional Climatology. Prerequisite: junior or senior standing, or permission of instructor. Investigates the nature of the Earth’s climate and presents a synthesis of contemporary scientific ideas about atmospheric circulation. Topics include radiation, the hydrologic cycle, general circulation, local and regional climates, and global climate change. Specific attention is focused on the climate water budget, its utility in evaluating local and regional climates, the emerging role of climate models, and issues in global change. (Irreg.) [III-NL]

4283 Biogeography (Slashed with 5283). Prerequisite: 1114 and junior standing. A study of spatial patterns and processes in plant populations, plant communities, and vegetated landscapes. Emphasis is placed on the contemporary patterns of species and communities as determined by a combination of factors: biogeography, climate, human influences, evolution, and dispersal. Field and laboratory techniques used in biogeographic research are also discussed. No student may earn credit for both 4283 and 5283. (Alt. Sp)

4293 Hydrologic Science (Slashed with 5293). Prerequisite: Math 1823 and either Physics 2414, 2514, or 3413. This course introduces the methodology and application of the principles of hydrologic science in the study of the natural and geographic processes which influence the flow of water. Topics include: surface hydrology, ground water hydrology, and urban hydrology. No student may earn credit for both 4293 and 5293. (F)

4343 Climate, History, and Society (Slashed with 5343). Prerequisite: junior standing or permission of instructor. This course is an overview of the mutual interactions of climate and human activities, and examines historical examples of significant climatic impacts. The course includes examination of the nature of the earth’s climate and a synthesis of contemporary scientific ideas about the climate and its environmental and societal impacts. No student may earn credit for both 4293 and 5343. (Irreg.)

4531 Introduction to Geospatial Information Technologies. Prerequisite: junior standing or permission of instructor. Overview of theories, applications, and practices of modern geospatial information technologies, including global positioning systems (GPS), remote sensing (RS), and geographic information systems (GIS). Course includes lectures, discussions, interactive and hands-on components in the use of field projects, and site visits to OU research centers, local governments, and private geospatial information technologies companies. (Su)

4543 Cultural and Political Ecology. Prerequisite: junior standing or permission of instructor. An introduction to the political, economic, and cultural factors that shape human-environmental relations among peasant and indigenous societies around the world. Special attention is placed on how people negotiate decisions about resource use within value and belief systems that vary in response to changing social and environmental contexts. (Spi) [IV-WC]

4544 Urban Ecology (Slashed with 5443). Prerequisite: junior standing and permission of instructor. An interdisciplinary course that examines how cities acquire, utilize, and modify environmental inputs such as land, water, and energy, and in the process generate a complex set of waste streams and environmental impacts such as solid wastes, atmospheric emissions, and habitat modification. No student may earn credit for both 4544 and 5444. (F, Sp)

4553 Geographic Information Systems (Slashed with 5453). Prerequisite: junior standing or permission of instructor. An introduction to the nature and applications of geographic information systems (GIS) including the categories of geographic data, data input, data models, spatial analysis, output, and the uses of GIS in socio-economic and environmental studies. No student may receive credit for both 4553 and 5453. (F)

4553 GIS Applications (Slashed with 5553). Prerequisite: 4453. Emphasizes technical and application practices in geographic information systems (GIS). Through weekly exercises and two projects, students will gain experience with applications and utilities of Geographic Information Systems, and learn how to develop and implement a GIS project. No student may earn credit for both 4553 and 5553. Laboratory (F)

4563 American Indian Geography. Prerequisite: upper-division standing. A survey of the geographical knowledge among Indians in North America. Historical and contemporary topics are covered in a cross-cultural perspective including land use, environmental perception, concepts of space and place, symbolic landscapes, sacred land, and the idea of resources. (Spi) [IV-WV]

4953 Proseminar in Geography. Prerequisite: 1101, 1114, 1213, 3123, 3353, 3924, and an upper-division physical geography course: 3353 and 3924 may be taken concurrently with permission of instructor. History and character of the discipline of geography, with particular attention to changing theories, debates, and methods, the discipline’s relations with its neighbors, and current trends in the discipline. (Sp) [V]