

REQUIREMENTS FOR THE BACHELOR OF ARTS IN GEOGRAPHY

COLLEGE OF GEOSCIENCES THE UNIVERSITY OF OKLAHOMA

For Students Entering the
Oklahoma State System
for Higher Education:
**Summer 2000 through
Spring 2001**

Minimum Credit Hours and Grade Averages Required

Total Credit Hours 124-126

Grade Point Averages:

Minimum in OU Coursework 2.00

Minimum in Major Coursework 2.00

Overall 2.00

Geography

2206B

Bachelor of Arts in
Geography

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
FRESHMAN	ENGL 1113 , Principles of English Composition (Core I)	3	ENGL 1213 , Principles of English Composition (Core I)	3
	¹ General Education Natural Science Elective (Core II)	3-4	¹ General Education Natural Science with lab (Core II)	4-5
	¹ General Education Math Elective (Core I)	3	HIST 1483 or 1493 , U.S. (Core IV)	3
	Elective	3	¹ P SC 1113 , American Federal Government (Core III)	3
	¹ GEOG 1103 , Human Geography	3	GEOG 1114 , Physical Geography (Core II)	4
	TOTAL CREDIT HOURS	15-16	TOTAL CREDIT HOURS	17-18
SOPHOMORE	GEOG 3001 , Dialogue on Discipline of Geography	1	General Education Western Civ. & Culture Elective (Core IV)	3
	¹ General Education Social Science Elective (Core III)	3	General Education Non-Western Culture Elective (Core IV)	3
	¹ General Education Artistic Forms Elective (Core IV)	3	General Education Elective	3
	⁴ GEOG Systematic Physical Geography Course	3	² College Elective–Intermediate Foreign Language	3
	² College Elective–Intermediate Foreign Language	3	³ GEOG Systematic Human Geography Course	3
	⁸ Free Elective	3		
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15
JUNIOR	GEOG 3924 , Analytic Methods in Geography	4	³ GEOG Systematic Human Geography Course	3
	⁴ GEOG Systematic Physical Geography Course	3	⁵ GEOG Geotechniques Geography Course	3
	² College Elective	3	² College Elective	3
	⁷ Area of Concentration	3	⁷ Area of Concentration	3
	⁸ Free Elective	3	⁸ Free Elective	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15
SENIOR	⁶ GEOG Regional Geography Course	3	² College Elective	3
	² College Elective	3	² College Elective	3
	² College Elective	3	⁷ Area of Concentration	3
	⁷ Area of Concentration	3	⁸ Free Elective	3
	⁸ Free Elective	3	GEOG 4953 , Proseminar (Capstone)	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

¹=To be chosen from the University-Wide General Education Approved Course List. Three hours of general education must be upper-division outside the major.

²=Twenty-four hours of adviser-approved coursework relevant to the student's field(s) of study. These 24 hours are to be outside the student's major School of Department, and must include two intermediate-level foreign language courses, or the student must demonstrate competency at the intermediate level. Within these 24 hours, students must complete one geosciences course outside the major.

³=Two Systematic Human Geography courses chosen from 1113, 1213, 2113, 2213, 3213, 3223, 3513, 3633, 3773, 4443, 4563, or other course approved by faculty adviser.

⁴=Two Systematic Physical Geography courses chosen from 4203, 4273, 4283, 4293, 4314, or other course approved by faculty adviser.

⁵=One Geotechniques Geography course (3 credit hours) chosen from 3353, 3930, 3933, 4453, 4933, or other course approved by faculty adviser.

⁶=One Regional Geography course chosen from 2603, 3533, 3613, 3853, 4243, 4633, 4913, or other course approved by faculty adviser.

⁷=Students must select an Area of Concentration consisting of an additional 12 hours approved by faculty adviser, 6 hours of which must be in Geography. Areas of concentration include Landscape Interpretation, Environmental Geography and Geotechniques.

⁸=Fifteen hours of faculty-adviser approved free electives.

Students must complete 48 hours of upper-division coursework for graduation.

¹University-Wide General Education Requirements (minimum 40 hours)

Courses designated as Core I, II, III or IV are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list, including at least one upper-division Gen. Ed. course outside of the student's major. Courses graded S/U or P/NP will not apply.

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

COURSES IN GEOGRAPHY

1103 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 settings. (F, Sp, Su)

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.

1114 Physical Geography. A systematic 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, Sp, Su)

1213 Economic Geography. A survey of the contemporary global economy and of the analytical approaches developed by geographers studying it. Economic systems are examined at the household, urban, regional, national, and international levels. Special attention is given to changes in resource use, regional specialization, trade, industrial and retail location, and modernization. (F, Sp)

1304 The Atmosphere and Global Change. An introduction to the earth/atmosphere system, its natural variability, and how it may be affected by anthropogenic activities. Inter-relationships between the atmosphere, biosphere, and the hydrosphere will be examined. (F)

2113 Introduction to the City (Crosslisted with Regional and City Planning 2113). Cities and regions; cities and suburbs; housing for rich and poor; industry and commerce; transportation; public policies and urban politics; planning responses to urban problems. (Irreg.)

2213 Globalization and the Environment. 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. (Irreg.)

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 degradation, as well as on the changing role of the United States. (F, Sp, Su)

3001 Dialogue on the Discipline of Geography. Prerequisite: 1103, 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.

3213 Cultural Geography. Prerequisite: 1103 and 1114. The development, visual character, and representation of the Earth's humanized or cultural landscapes. Special attention is given to the relationship between those landscapes and the people who have created them, as well as to the relationship between those landscapes and such ideas as religion, the state, and progress. (F)

3223 The British Empire and Its Successor States. An introduction to the British colonial experience and to post-imperial development, particularly in Asia and Africa.

3253 Environmental Conservation. Contemporary environmental issues and policies. Problems of population growth, food production, energy shortages, resource depletion and pollution impacts will be stressed. The social aspects of conservation management policies will be viewed at both global and national scales. (F)

3353 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 nation-state, territoriality, the legacies of colonialism, spheres of political influence, regional conflicts, political-geographical integration in such areas as Europe and the Pacific Rim, demographic and resource considerations in world politics, and emerging culturally based conflicts. (F, Sp)

3533 Geography of Europe. Europe's natural and cultural landscapes. Emphasis is placed on recent political, economic and social changes and on such issues as an aging population, rural crises, energy conservation, inner-city revival, mass transportation systems, survival of family-operated small industries, tourist cultures, minorities, and urban poverty. (F, Sp)

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, Sp)

3613 Geography of Oklahoma. A study of the physical regions, populations, distribution, economic development and recreational resources of Oklahoma. (Irreg.)

†G3633 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, Sp)

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 intercession courses and occasional (irregularly scheduled) courses of special concern and use for the undergraduate. (F, Sp)

†G3924 Analytic Methods in Geography. Introduces students to methods of organizing, classifying and describing geographic data, together with methods of interpreting spatial relationships and areal associations. **Laboratory** (F)

3930 Field Techniques for Geographers. 1 to 4 hours. Prerequisite: twelve 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; Slashlisted 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. (Sp)

G4113 Urban Geography: Basic Concepts. Prerequisite: six hours of geography or, for nonmajors, permission. A geographical analysis of urban centers, from villages to metropolitan complexes, with a focus on basic concepts of urban systems, the internal structure of cities and urban activities. (Sp)

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

G4223 Logistics Management (Crosslisted with Marketing 4223). Prerequisite: Marketing 3013, Economics 2843. The physical supply and the distribution function in business management, including channel selection, transportation, facility location and materials management. Concentrates on the analytical and managerial methods necessary for the development and control of an integrated logistics system. (Irreg.)

4243 Geography of China (Slashlisted with 5243). Prerequisite: junior standing or permission of instructor. Cultural and environmental geography of China, Tibet and Mongolia since the Qing dynasty (1644-today). No student may earn credit for both 4243 and 5243. (Sp)

G4273 Regional Climatology. Prerequisite: 1114, Meteorology 1004, junior or senior standing; or permission. 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 climatic water budget, its utility in evaluating local and regional climates, the emerging role of climate models, and issues in global climate change. (Irreg.)

4283 Biogeography (Slashlisted with 5283). Prerequisite: 1114 and junior standing. A survey 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 including physiography, 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 (Slashlisted with 5293). Prerequisite: Math 1823 and either Physics 2414, 2514 or Chemistry 1315. Study of the processes which control the storage and movement of water at global, regional, and local scales. The emphasis is on the land portion of the hydrologic cycle, and includes the study of processes such as infiltration, soil water flow in the saturated and unsaturated zone, rainfall/runoff and evaporation. Lab sections include exercises on a computer in the field and in a soils lab. No student may earn credit for both 4293 and 5293. (Sp)

4314 Soils. Prerequisite: 1114. A survey of physical and chemical properties of soils, climate-soil relationships; soil geneses, survey and classification; soil erosion and its control; and soil resources and human dimensions. **Laboratory** (Irreg.)

4343 Global Climate Change (Slashlisted with 5343). Prerequisite: 1114, 4273, and Meteorology 1004 or 1014; or permission of instructor. An integrated examination of the scientific and social aspects of climate change in the past, present, and future. The nature and causes of past climate change are discussed in relation to techniques of climate reconstruction providing a perspective on the potential changes in the future. No student may earn credit for both 4343 and 5343. (Irreg.)

4353 Advanced Cartography (Slashlisted with 5353). Prerequisite: 3353 or permission of instructor. Training in using state-of-the-art hardware and software for computer mapping systems in digital cartographic data structures, in cartographic modeling, and in map production in computer environments. No student may earn credit for both 4353 and 5353. (Sp)

4443 Urban Ecology (Slashlisted 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 4443 and 5443. (Irreg.)

4453 Geographic Information Systems (Slashlisted with 5453). Prerequisite: 3353 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 4453 and 5453. (F, Sp)

4463 Satellite Climatology (Slashlisted with 5463). Prerequisite: physical geography or permission. The use of satellites to study the present climate including the history of satellites, descriptions of algorithms used to obtain climate variables from received radiance, and the data analysis techniques used to process imagery. No student may earn credit for both 4463 and 5463. (Sp)

4553 GIS Applications (Slashlisted 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 plan and implement a GIS project. No student may earn credit for both 4553 and 5553. **Laboratory** (Irreg.)

4563 American Indian Geographies. 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. (Sp)

G4933 Remote Sensing I. Introduction to theory and interpretation of remote sensing imagery, with emphasis on photographic, multi-spectral, thermal, and microwave remote sensing systems. Imagery from aircraft, satellite and low-altitude platforms will be used to illustrate geographic and environmental applications of remote sensing. (F)

4953 Proseminar in Geography. Prerequisite: 1103, 1114, 1213, 3213, 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 themes, debates, and methods, the discipline's relations with its neighbors, and current trends in the discipline. (Sp)