## REQUIREMENTS FOR THE BACHELOR OF ARTS IN GEOGRAPHIC INFORMATION SCIENCE
### COLLEGE OF ATMOSPHERIC AND GEOGRAPHIC SCIENCES
#### THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education
Summer 2010 through Spring 2011

<table>
<thead>
<tr>
<th>GENERAL REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Credit Hours:</td>
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<td>Total Upper-Division Credit Hours:</td>
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<tr>
<td>Minimum Retention/Graduation Grade Point Averages:</td>
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<td>Minimum in OU Coursework:</td>
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<tr>
<td>Minimum in Major Coursework- Combined and OU:</td>
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<td>Overall - Combined and OU:</td>
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</tbody>
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**University-Wide General Education Requirements (minimum 40 hours)**

Courses designated as Core I, II, III, IV, or Capstone 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)

- **Core III**
  - Social Science (6 hours, 2 courses)

- **Core IV**
  - Humanities (12 hours, 4 courses)

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

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**NOTE:**

Students must complete 48 hours of upper-division coursework for graduation.
### COURSES IN GEOGRAPHIC INFORMATION SCIENCE (GIS)

**1103 Human Geography.** An introduction to the humanized Earth, specifically, to the geography of the global human and cultural landscape and its 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) [IV-WC]

**1113 The Language of Maps.** How to read, analyze and interpret geographic information symbolized on a wide variety of maps. Topics include: scale, location, distance and direction, navigation, interpretation of maps, maps in the media, and the history of cartography. Emphasis is placed on the roles of maps and their uses in society. (F, Sp, Su) [II-LAB]

**1213 Economic Geography.** An introduction to the survey of the economic geography of the world. Economic systems are examined at the household, national, regional, and world scale, and the relationship between the economy and technology, the environment, social organization, and cultural practices. Emphasis is placed on the roles of maps and their uses in society. (F, Sp, Su) [III-LAB]

**2453 Introduction to Computer Mapping and Analysis.** An introductory survey of computer applications in mapping and analysis. Designed to provide fundamental concepts and techniques necessary for visual presentation, analysis, and interpretation of geographic data using digital mapping systems. The course covers the creation of geographic data, digital mapping, and analysis. (F, Sp, Su) [IV-WC]

**2603 World Regional Geography.** A broad survey of the world’s major culture regions emphasizing physical, cultural, economic, and political processes, as well as the processes that have created their current patterns. Emphasis is placed on the role of maps in presenting causes and changes in human and cultural phenomena and their uses in society. (F, Sp, Su) [IV-WC]

**3001 Dialogue on the Discipline of Geography.** Prerequisite: 1103, 1114 and 1213; or permission of instructor. Introduction to the discipline of geography, of geographical research and the methods of research faculty and students. (F, Sp, Su) [III-LAB]

**3023 Principles of Physical Geography.** Prerequisite: Upper division standing or permission of instructor. Provides a foundation in physical geography. Students should gain a broad, comprehensive but focused viewpoint if lithospheric, biospheric and atmospheric processes as well as the interdependence among them. (F, Sp, Su) [V-SW]

**3128 Visualization and Information Management.** 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 myth that global change is an abstraction of the modern world. (F, Sp, Su) [III-LAB]

**3123 Principles of Human Geography.** Prerequisite: Upper division standing or permission of instructor. Introduction to the distribution of human and their activities on the surface of the earth and the processes that generate these distributions. Special attention is 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, Sp, Su) [III-LAB]

**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 these distributions. Special attention is given to the influence of economic location and their application to patterns of production, distribution, and exchange. Emphasis is placed on the distribution of human and their activities on the surface of the earth. (F, Sp, Su) [III-LAB]

**3253 Environmental Conservation.** Contemporary environmental issues and problems. Problems of population growth, food production, energy shortages, resource depletion and pollution impact man and the environment. Environmental conservation policies will be viewed at both global and national scales. (F, Sp, Su) [III-LAB]

**3353 Introduction to Cartography.** A basic survey of maps: their properties, conception and design, construction, compilation and editing, production, and use, with exercises in mapping. (F, Sp, Su) [III-LAB]

**3513 Political Geography.** A survey, stressing current geopolitical conflicts. Special topics include the European state system, the international economy, the Cold War, the Middle East, Africa, and the former Soviet Union. The emphasis is on these areas and their political and social implications. (F, Sp, Su) [III-SW]

**3583 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, Su) [III-LAB]

**3613 Geography of Oklahoma.** A study of the physical regions, populations, distribution, economic development and recreational resources of Oklahoma. (F, Sp) [IV-WC]