

**THE OHIO STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES**  
**BACHELOR OF SCIENCE (BS): GEOGRAPHIC INFORMATION SCIENCE**

<b>Required Prerequisites or Supplements to the Major:*</b>		
CSE 1114	Database Modeling for Non-Majors	<b>1.5</b>
STAT 2450	Introduction to Statistical Analysis	<b>3</b>
<b>Required Courses (24 hours)</b>		
GEOG 5100	Spatial Data Analysis	<b>3</b>
GEOG 5200	Cartography and Map Design	<b>3</b>
GEOG 5201	GeoVisualization	<b>3</b>
GEOG 5210	Fundamentals of Geographic Information Systems	<b>3</b>
GEOG 5212	Spatial Database Design for GIS	<b>3</b>
GEOG 5222	GIS Algorithms and Programming	<b>3</b>
GEOG 5223	Design and Implementation of GIS	<b>3</b>
GEOG 5225	Geographic Applications of Remote Sensing	<b>3</b>
<b>Electives: Choose three of the following courses (9 hours). Note: Some courses have prereqs beyond those required for the major.</b>		
GEOG 5226	Spatial Simulation and Modeling	<b>3</b>
GEOG 5229	Emerging topics in GIS	<b>3</b>
GEOG 5***	One 5000-level topical course in Geography in addition to the courses above	<b>3</b>
CSE 2122	Data Structures Using C++	<b>3</b>
CSE 2123	Data Structures Using Java	<b>3</b>
CSE 3241	Introduction to Database Systems	<b>3</b>
CSE 5242	Advanced Database Management Systems	<b>3</b>
	<b>Minimum Total Major Hours</b>	<b>33</b>

\* Prerequisites are course specific. There are no prerequisites that must be completed before applying to the Geographic Information Science major. You can declare a major in Geographic Information Science by meeting with an academic advisor in the Department of Geography.

**GENERAL EDUCATION**

Please visit <http://artsandsciences.osu.edu/academics/current-students/advising/ge> to find your General Education Requirements.

## MAJOR REQUIREMENTS

The following requirements for the major apply to all Arts and Sciences degrees.

**Major requirements comprise at least 30 semester hours and can be substantially higher.** Your major courses must be at the 2000 level or above. At least 20 hours of your major must be in courses offered by the department of the major. Note: Some interdisciplinary majors are excluded from the 20-hour rule.

**You must earn at least a C- in a course for it to be counted toward the major.** However, you must receive an overall 2.0 grade point average (GPA) for all major course work. If you earn a D+, D, or an E in a course needed for your major, the course cannot be counted on the major. Your academic advisor will decide if the course should be repeated or if another course should be substituted. Courses taken on a pass/non-pass basis cannot be used on the major.

**Your department must approve all courses in your major.** Some departments require a “major program form,” a document that must be signed by your academic advisor and submitted with your graduation application. Some departments do not require such a form because the academic advisors use an automated version on the degree audit report. Some departments require both. In any case, you should meet with your academic advisor early to plan the major; during your meeting, you can ask your academic advisor whether or not your department requires a paper major program form. Any changes or adjustments to your major should be made in consultation with your academic advisor.

**If you have transferred from another institution, no more than half of the credit hours on your major program may consist of transfer credit.** Your academic advisor, the chairperson of the department, and the appropriate assistant dean must approve any request for a variation in this policy.

**If you are an Honors student, your GE curriculum and major must be approved by your Honors advisor.** Information about the honors curriculum and requirements and how to schedule an appointment with an honors advisor is available on the College of Arts and Sciences Honors Program website: <http://aschonors.osu.edu/advising>. You will also be assigned a faculty advisor in your department of study to help you choose courses and co-curricular opportunities that align with your academic and professional goals.

**For more information about internship and career opportunities, visit the College of Arts and Sciences Career Services Office.** Their website is <http://asccareerservices.osu.edu/>.