

# GEOGRAPHIC INFORMATION SCIENCE, BACHELOR OF ARTS IN GEOGRAPHIC INFORMATION SCIENCE

Minimum Total Credit Hours: 120

Minimum Upper-Division Hours: 40

Overall GPA - Combined and OU: 2.25

Major GPA - Combined and OU: 2.25

Program Code: B450

- Courses required for major support may *not* also fulfill University-Wide General Education Requirements.

## Major Requirements

Code	Title	Credit Hours
<b>Core</b>		
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
GEOG 1113	The Language of Maps	3
GEOG 1123	Introduction to Geohumanities	3
GEOG 3773	Geography of the United States	3
GIS 4013	Fundamentals of Geographic Information Systems	3
GIS 4253	GIS Applications	3
GEOG 4893	Research Methods and Professional Development	3
GEOG 4953	Capstone	3
<b>Remote Sensing</b>		
Choose two of the following:		6
GIS 4133	Fundamentals of Remote Sensing	
GIS 4233	Digital Image Processing	
GIS 4393		
GIS 4970	Special Topics/Seminar (Remote Sensing)	
Advisor-approved elective		
<b>Statistics</b>		
GEOG 3924	Quantitative Methods	4
GEOG 4313	Interpreting Society and Environment: Qualitative Research Methods	3
<b>Computer Related</b>		
Choose two of the following:		6
C S 1313	Programming for Non-Majors with C	
METR 1313	Introduction to Programming for Meteorology	
MIS 2113	Computer-Based Information Systems	
MIS 3013	Introduction to Programming	
<b>Applied GIS</b>		
Choose one of the following:		3
RCPL 4463	Geographic Information Systems for Land Use Planning	

Other advisor-approved course

Total Credit Hours 46

## Major Support Requirements

### Additional College Requirements

Code	Title	Credit Hours
<b>Cognate</b>		
Choose 12 hours (to include 6 upper-division hours, 4 courses) in the same area, to be chosen from the following: economics, film & media studies, geography, history, journalism, political science, psychology, regional & city planning, sociology, women's & gender studies, or another advisor-approved area		12
<b>Additional Advisor-Approved Electives</b>		
Choose two courses		6
Total Credit Hours		18

## General Education and College Requirements

Courses for fulfillment of General Education and College of Atmospheric & Geographic Sciences requirements must be from the approved General Education course list at <http://www.ou.edu/content/gened/courses.html>.

### University-Wide General Education (minimum 40 hours) and College of Atmospheric and Geographic Sciences Requirements

Courses graded P/NP will not apply

Code	Title	Credit Hours
<b>Core Area I: Symbolic and Oral Communication</b>		
<i>English Composition (6 hours)</i>		
ENGL 1113	Principles of English Composition	3
ENGL 1213	Principles of English Composition	3
	or EXPO 1213 Expository Writing	
<i>Foreign Language (0-10 hours)</i>		
(0-10 hours in the same language) Students who have not completed two years of the same foreign language in high school are required to take two college courses in the same foreign language		
	Beginning Course	0-5
	Beginning Course, continued	0-5
<i>Mathematics (3 hours)</i>		
Choose one course from the General Education Mathematics list		3
<b>Core Area II: Natural Science (7 hours, 2 courses)</b>		
Choose two courses including one laboratory component		7
<b>Core Area III: Social Science (6 hours)</b>		
P SC 1113	American Federal Government	3
Choose one course from the General Education Social Science list		3
<b>Core Area IV: Humanities</b>		
<i>Understanding Artistic Forms (3 hours)</i>		

Choose one course from the General Education Understanding Artistic Forms list	3
<i>Western Civilization and Culture (3 hours)</i>	
HIST 1483 United States, 1492 to 1865 or HIST 1493 United States, 1865 to the Present	3
Choose one course from the General Education Western Civilization & Culture list <sup>1</sup>	3
<i>Non-Western Culture (3 hours)</i>	
Choose one course from the General Education Non-Western Culture list	3
<b>Core Area V: Senior Capstone Experience</b>	
3 hours, fulfilled in Major Requirements	3
<b>Total Credit Hours</b>	<b>37-47</b>

<sup>1</sup> Excluding HIST 1483 and HIST 1493.

At least three hours of Upper-Division General Education coursework must be completed outside the major.

## Additional College of Atmospheric and Geographic Sciences Bachelor of Arts Requirements

Code	Title	Credit Hours
<b>Humanities and Social Science Electives</b>		
Choose one course from Humanities <sup>1,2</sup>		3
Choose one course from Social Science <sup>1,2</sup>		3
<b>Natural Science Elective</b>		
Choose one course with or without a laboratory component <sup>1</sup>		3-4
<b>Foreign Language</b>		
Choose one course at the intermediate level <sup>3</sup>		3
<b>Total Credit Hours</b>		<b>12-13</b>

<sup>1</sup> To be chosen from the University-Wide General Education Approved Lists.

<sup>2</sup> At least one course must be completed at the upper-division level.

<sup>3</sup> If the student successfully places beyond the second intermediate course, the 13 hours of required foreign language will become free electives.

## Free Electives

Electives to bring total applicable hours to the minimum total required for the degree including 40 upper-division hours.

## Information Concerning General Rules, Regulations and Minimum Requirements for Undergraduate Degrees

**Total Hours:** A minimum of 120 semester hours acceptable toward graduation must be completed.

**Upper-Division Hours:** A minimum of 40 upper-division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper-division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

**Senior Institution Hours:** A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

### Residency:

- A minimum of two semesters must be spent in residence in the College of Atmospheric and Geographic Sciences.
- At least 36 of the last 48 hours must be completed in residence at OU.

**Individual Studies:** No more than six hours of independent study or directed readings may be applied toward degree requirements.

**Grade Point Averages:** Students must earn a minimum overall 2.25 for each of the following: Combined Retention GPA (all college grades), OU Retention GPA, GPA for all major courses, and GPA for all major courses taken at OU.

## Suggested Semester Plan of Study

This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checklist for official requirements. Students must consult with College of Atmospheric and Geographic Sciences and/or Geoinformatics Program academic advisors to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Atmospheric & Geographic Sciences, and Geographic Information Science major requirements.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>First Semester</b>		
ENGL 1113	Principles of English Composition (Core I)	3
Beginning Foreign Language (Core I)		5
Mathematics General Education (Core I) <sup>1</sup>		3
Social Science (Core III) <sup>1</sup>		3
<b>Credit Hours</b>		<b>14</b>
<b>Second Semester</b>		
ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
Beginning Foreign Language continued (Core I)		5
GEOG 1113	The Language of Maps	3
GEOG 1123	Introduction to Geohumanities	3
<b>Credit Hours</b>		<b>14</b>
<b>Sophomore</b>		
<b>First Semester</b>		
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
Natural Science with lab (Core II) <sup>1</sup>		4
General Education Humanities elective <sup>1</sup>		3
Intermediate Foreign Language (College elective)		3
HIST 1483 or HIST 1493	United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present	3
<b>Credit Hours</b>		<b>16</b>
<b>Second Semester</b>		
Understanding Artistic Forms (Core IV) <sup>1</sup>		3
Natural Science (Core II) <sup>1</sup>		3
Western Civilization & Culture (Core IV) <sup>1</sup>		3
General Education Social Science elective <sup>1</sup>		3

Computer Related Course Requirement		3
	Credit Hours	15
<b>Junior</b>		
<b>First Semester</b>		
GEOG 3924	Quantitative Methods	4
GIS 4013	Fundamentals of Geographic Information Systems	3
Computer Related Course Requirement		3
Remote-Sensing Course Requirement		3
Non-Western Culture (Core IV) <sup>1</sup>		3
	Credit Hours	16
<b>Second Semester</b>		
GIS 4253	GIS Applications	3
GEOG 3773	Geography of the United States	3
Remote-Sensing Course Requirement		3
Cognate Course <sup>2</sup>		3
P SC 1113	American Federal Government (Core III)	3
	Credit Hours	15
<b>Senior</b>		
<b>First Semester</b>		
GEOG 4313	Interpreting Society and Environment: Qualitative Research Methods	3
RCPL 4463	Geographic Information Systems for Land Use Planning	3
Natural Science Elective <sup>1</sup>		3
GEOG 4893	Research Methods and Professional Development	3
Advisor-Approved Elective		3
	Credit Hours	15
<b>Second Semester</b>		
GEOG 4953	Capstone	3
Cognate Course <sup>2</sup>		3
Cognate Course <sup>2</sup>		3
Cognate Course <sup>2</sup>		3
Advisor-Approved Elective		3
	Credit Hours	15
	Total Credit Hours	120

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

<sup>2</sup> Choose 12 hours (to include 6 upper-division hours, 4 courses) in the same area, to be chosen from the following: economics, film & media studies, geography, history, journalism, political science, psychology, regional & city planning, sociology, women's & gender studies, or another advisor-approved area.