

# BACHELOR OF ARTS IN GEOGRAPHY-GIS/RS TRACK

COURSE	TITLE	S.H.
<b>General Education Requirement</b>		
ENGL 1550	Writing 1	
ENGL 1551	Writing 2	
CMST 1545	Communication Foundations	
STAT 2601	Introductory Statistics	
or MATH 2623	Quantitative Reasoning	
or STAT 2625	Stat Lit and Crit Reasoning	
<b>General Education Knowledge Domains</b>		
Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model.		
Arts and Humanities		6
Natural Sciences (2 courses, one must include a lab)		7
NS Required of the major:		
GEOG 1503	Physical Geography	
Social Sciences		6
GEOG 2626	World Geography	
or GEOG 2640	Human Geography	
Social and Personal Awareness		6
LASS 1510	Exploring Critical Questions in LASS	3
<b>Foreign Language Requirement</b>		8
At least 21 s.h. of GEOG courses must be at the 3700-level or above. Grade of C or better is required. Courses cannot be taken CR/NC and cannot count towards both the major and minor.		
<b>Required Courses (15 s.h.):</b>		
GEOG 1503	Physical Geography	
GEOG 2611	Geospatial Foundations	
GEOG 3701	Introduction to Geographic Information Science	
GEOG 3702	Introduction to Remote Sensing	
GEOG 4890	Geography Capstone	
<b>Select one of the following courses (3 s.h.):</b>		
GEOG 2626	World Geography	
GEOG 2640	Human Geography	
<b>Regional Geography - Select one course from the following (3 s.h.):</b>		
GEOG 3713	Geography of South America	
GEOG 3715	Geography of Middle America	
GEOG 3717	Geography of Europe	
GEOG 3719	Geography of the United States	
GEOG 3721	Geography of Ohio	
GEOG 3750	Topics in Regional Geography	
GEOG 5850	International Area Study	
<b>Select one course from the following (3 s.h.):</b>		
GEOG 4801	Advanced Geographic Information Science	
GEOG 4802	Advanced Remote Sensing	
<b>Select two additional courses from the following (6 s.h.):</b>		
GEOG 3712	Thematic Map Design and Symbolization	
GEOG 3775	Field Methods in Geography	
GEOG 3781	GIS Applications for the Social Sciences	
GEOG 3782	GIS Applications for the Natural Sciences	
GEOG 4801	Advanced Geographic Information Science	
GEOG 4802	Advanced Remote Sensing	
GEOG 4825	Geography Internship	

GEOG 4840	Seminar in Geography	
GEOG 5812	Global Positioning Systems and GIScience	
GEOG 5814	3D Modeling and GIS	
GEOG 5820	Directed Research in Geography	
<b>Select one 3 s.h. GEOG course at the 3700-level or higher</b>		3
<b>Four Required Support Courses (12-13 s.h.):</b>		
CSIS 1590	Survey of Computer Science and Information Systems	
CSIS 1595	Fundamentals of Programming and Problem- Solving 1	
CSIS 3722	Development of Databases	
<b>Select one of the following courses which satisfies the General Education MATH requirement:</b>		
STAT 2601	Introductory Statistics	
STAT 2625	Stat Lit and Crit Reasoning	
MATH 2623	Quantitative Reasoning	
Total Hours Required for the Degree = 120		
<b>Course</b>	<b>Title</b>	<b>S.H.</b>
<b>Year 1</b>		
<b>Fall</b>		
ENGL 1550	Writing 1	3
GEOG 1503	Physical Geography	3
LASS 1510	Exploring Critical Questions in LASS	3
Mathematics Requirement		3-4
STAT 2601	Introductory Statistics	
or		
STAT 2625	Stat Lit and Crit Reasoning	
or		
MATH 2623	Quantitative Reasoning	
FNLG 1550	Elementary Foreign Language	4
<b>Semester Hours</b>		<b>16-17</b>
<b>Spring</b>		
ENGL 1551	Writing 2	3
FNLG 2600	Intermediate Foreign Language	4
GEOG 2611	Geospatial Foundations	3
GEOG 2626	World Geography	3
or GEOG 2640	or Human Geography	
Arts and Humanities 15XX/26XX Course		3
<b>Semester Hours</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
GEOG 3701	Introduction to Geographic Information Science	3
GEOG 3702	Introduction to Remote Sensing	3
Social Science 15XX/26XX course		3
Natural Science 15XX/26XX level course w/lab		4
CSIS 1590	Survey of Computer Science and Information Systems	3
<b>Semester Hours</b>		<b>16</b>
<b>Spring</b>		
Social and Personal Awareness 15XX/26XX- level course		3
Minor 15XX/26XX- level course		3
Arts and Humanities 15XX/26XX level course		3
CSIS 1595	Fundamentals of Programming and Problem- Solving 1	3
GEOG 37XX Regional Geography Elective		3
<b>Semester Hours</b>		<b>15</b>

**Year 3****Fall**

CMST 1545	Communication Foundations	3
GEOG 4801 or GEOG 4802	Advanced Geographic Information Science or Advanced Remote Sensing	3
Social Science 15XX/26XX course		3
Social and Personal Awareness 15XX/26XX- level course		3
CSIS 3722	Development of Databases	3
<b>Semester Hours</b>		<b>15</b>

**Spring**

Minor 15XX/26XX- level course		3
GEOG Elective 37XX/48XX- level course		3
Minor 15XX/26XX- level course		3
Minor 15XX/26XX- level course		3
Elective 37XX/48XX- level course		3
<b>Semester Hours</b>		<b>15</b>

**Year 4****Fall**

GEOG 4890	Geography Capstone	3
Minor 37XX/48XX- level course		3
GIS Elective GEOG 37XX/48XX/58XX- level course		3
GEOG Elective 37XX/48XX- level course		3
Elective 37XX/48XX- level course		3
<b>Semester Hours</b>		<b>15</b>

**Spring**

Minor 37XX/48XX- level course		3
GEOG 37XX- level or higher elective		3
GIS Elective GEOG 37XX/48XX/58XX- level course		3
Elective 37XX/48XX- level course		3
Elective 37XX/48XX- level course		3
<b>Semester Hours</b>		<b>15</b>

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**Total Semester Hours** **123-124**

## Learning Outcomes

Geography majors, upon fulfilling the requirements of the major, will:

- Demonstrate understanding of the fundamental themes of human and physical geography: region, movement, human/environmental interaction, landscape, and place.
- Demonstrate understanding of spatial patterns and processes in the human and physical environment.
- Effectively use, analyze, and interpret maps and other graphic representations of geographic information.
- Be proficient in geographic methods and techniques such as cartography, GIScience, remote sensing, and field methods.
- Effectively communicate geographic information in written and oral forms.
- Complete a research proposal that requires synthesis of relevant literature and development of a viable geographic research project.

In addition to the above, students completing the GIS/RS Track or a Certificate in Geospatial Science and Technology will:

- Demonstrate proficiency in one or more applications of geospatial technology: geographic information systems, global positioning systems, and remote sensing.