

# GEOGRAPHY, BACHELOR OF SCIENCE

To obtain a B.S. with a major in Geography, a student must fulfill university, college, and departmental requirements. Minimum hour requirements follow:

46 hours of University General Education courses

12 hours college breadth requirement

39 hours of major courses

Elective hours as required to total 120 hours.

TOTAL HOURS: 120

The BS degree with a major in Geography requires a minimum of 39 credits, 22 of which must be taken at the 3000 level or higher. All 3000 level or higher courses taken in the Geography Fundamentals and Geography Diversity Requirements count toward this requirement.

Students who wish more concentrated applications in geography may choose an optional concentration of either Geographic Information Systems or Travel and Tourism. The specific course requirements for these concentrations may also be used to satisfy the major requirements where the overlap of course options occurs.

## Requirements

Code	Title	Credits
<b>Geography Fundamentals Requirements</b>		
GEOG 1000	WORLD REGIONAL GEOGRAPHY	3
GEOG 1020	INTRODUCTION TO HUMAN GEOGRAPHY	3
GEOG 1030	OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY	4
GEOG 1050	HUMAN-ENVIRONMENT GEOGRAPHY	4
GEOG 3530	CARTOGRAPHY AND DATA VISUALIZATION	4
GEOG 4620	GEOGRAPHICAL FIELD STUDIES <sup>1</sup>	3
STAT 1530	ELEMENTARY STATISTICS	3
<b>Geography Diversity Requirements</b>		
Select a minimum of one course from each of the groups of Geography Diversity courses (see below).		15-16
<b>Total Credits</b>		<b>39-40</b>

<sup>1</sup> Optional method of completing GEOG 4620.

## Geographical Field Studies Requirement

Students who have completed a study abroad or military service for more than six months outside the USA can complete the course without going on a multiple-day field trip. Contact the department for the details regarding this alternative method. GEOG 4620 can also apply to the upper-level Global or North American category, depending on the field study destination.

## Geography Diversity Groups

Code	Title	Credits
<b>Physical Geography</b>		
GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGMENT	3
GEOG 3510	METEOROLOGY	3

With or without the following laboratory:		0-1
GEOG 3514	INTRODUCTION TO METEOROLOGY LABORATORY	
GEOG 4010	CONSERVATION OF NATURAL RESOURCES	3
GEOG/GEOL 4040	GEOARCHAEOLOGY	3
GEOG/BIOL/GEOL 4100	BIOGEOGRAPHY	3
GEOG 4260	PROCESS GEOMORPHOLOGY	4
GEOG 4320	CLIMATOLOGY	3
GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	4
GEOG 4340	WATER RESOURCES	3
GEOG 4350	GLOBAL CLIMATE CHANGE	3
GEOG/ENVN/GEOL/BIOL 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT	3
GEOG 4640	CRITICAL ZONE SCIENCE	4
<b>Human Geography</b>		
GEOG/ECON 3130	ECONOMIC GEOGRAPHY	3
GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGMENT	3
GEOG 3930	POLITICAL GEOGRAPHY	3
GEOG 4010	CONSERVATION OF NATURAL RESOURCES	3
GEOG 4120	URBAN GEOGRAPHY	3
GEOG/WGST 4150	GEOGRAPHY, GENDER AND ENTREPRENEURSHIP	3
GEOG 4160	URBAN SUSTAINABILITY	3
GEOG 4170	ADVANCED CULTURAL GEOGRAPHY	3
GEOG 4550	GEOGRAPHY OF ECONOMIC GLOBALIZATION	3
GEOG/PA/BIOL/ENVN 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS	3
<b>Global Perspectives</b>		
GEOG 3000	TRAVEL STUDY IN GEOGRAPHY	3
GEOG 3030	GEOGRAPHY OF AFRICA	3
GEOG 3050	GEOGRAPHY IN FILM	3
GEOG 3070	GEOGRAPHY OF LATIN AMERICA	3
GEOG 3080	EAST & SOUTHEAST ASIA	3
GEOG 3230	GEOGRAPHY OF EUROPE	3
GEOG 3240	GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS	3
<b>North American Perspectives</b>		
GEOG 3330	UNITED STATES & CANADA	3
GEOG 4230	GREAT PLAINS & NEBRASKA	3
GEOG 4530	HISTORICAL GEOGRAPHY OF THE UNITED STATES	3
<b>Geospatial Science</b>		
GEOG 2620	AERIAL PHOTOGRAPHIC INTERPRETATION	3
GEOG 4020	SPATIAL ANALYSIS IN GEOGRAPHY	3
GEOG 4030	COMPUTER MAPPING AND VISUALIZATION	3
GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I	4
GEOG 4630	ENVIRONMENTAL REMOTE SENSING	4
GEOG 4660	GEOGRAPHIC INFORMATION SYSTEMS II	4

Code	Title	Credits
<b>BS DEGREE COGNATE REQUIREMENT</b>		
	Select 6 credit hours of approved computer science coursework or in the case of those opting to add the GIS concentration, other complementary coursework, as determined by major advisor.	6
	Select 9 credit hours of coursework complementary to the major and chosen in consultation with a departmental advisor.	9

**Optional Concentrations**

Geography majors have the option to declare a concentration, if they wish. Concentrations are at least 15 credits, and are allowed to overlap with the major requirements, but not BS cognate coursework, where applicable.

**Geographic Information Science and Technology Concentration**

Code	Title	Credits
<b>Required Courses</b>		
	Select 9 credit hours of computer science coursework in consultation with an advisor. (May not overlap with BS cognate coursework)	9
<b>Additional Required Courses</b>		<b>3-7</b>
Both:		
MATH 1320	PRE-CALCULUS ALGEBRA (3 cr)	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
MATH 1330	TRIGONOMETRY (3 cr)	
Or one of the following options:		
MATH 1340	ALGEBRA AND TRIGONOMETRY FOR CALCULUS (5 cr)	
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (3 cr)	
MATH 1950	CALCULUS I (5 cr)	
In addition, select one of the following:		3-4
GEOG 4020	SPATIAL ANALYSIS IN GEOGRAPHY (3 cr)	
GEOG 4030	COMPUTER MAPPING AND VISUALIZATION (3 cr)	
GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I (4 cr)	
GEOG 4660	GEOGRAPHIC INFORMATION SYSTEMS II (4 cr)	
<b>Total Credits</b>		<b>15-20</b>

**Travel and Tourism Concentration**

Code	Title	Credits
<b>Required Course</b>		
GEOG 3000	TRAVEL STUDY IN GEOGRAPHY	3
<b>Additional Required Courses</b>		
Select four of the following:		12
GEOG/ECON 3130	ECONOMIC GEOGRAPHY (3 cr)	
GEOG 3230	GEOGRAPHY OF EUROPE (3 cr)	
GEOG 3240	GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (3 cr)	
GEOG 3330	UNITED STATES & CANADA (3 cr)	
GEOG 4230	GREAT PLAINS & NEBRASKA (3 cr)	
GEOG 4620	GEOGRAPHICAL FIELD STUDIES (3 cr)	
<b>Total Credits</b>		<b>15</b>

**Physical Geography Concentration (BS)**

Complete all BS Geography Degree requirements

Code	Title	Credits
<b>Required Course:</b>		
GEOG 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
Additional math requirement. Select one:		3-5
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES	
MATH 1950	CALCULUS I	
Two Additional Physical Geography courses:		6-8
GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGMENT	
GEOG 3510	METEOROLOGY	
GEOG 4010	CONSERVATION OF NATURAL RESOURCES	
GEOG 4100	BIOGEOGRAPHY	
GEOG 4260	PROCESS GEOMORPHOLOGY	
GEOG 4320	CLIMATOLOGY	
GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION	
GEOG 4340	WATER RESOURCES	
GEOG 4350	GLOBAL CLIMATE CHANGE	
GEOG 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT	
GEOG 4640	CRITICAL ZONE SCIENCE	
GEOG 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS	
Only one course may count toward additional majors.		
Recommended minors: Physics, Chemistry, Geology, Biology, Environmental Science, Sustainability, Emergency Management & Disaster Science		
<b>Total Credits</b>		<b>13-17</b>
<b>Freshman</b>		
<b>Fall</b>		
		<b>Credits</b>
GEOG 1020	INTRODUCTION TO HUMAN GEOGRAPHY (*)	3
GEOG 1030	OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY	4
ENGL 1150	ENGLISH COMPOSITION I (**)	3
Humanity & Fine Arts Course		3
MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	4
*GEOG 1020 is a social science and global diversity in addition to being a major course.		
**ENGL 1150: Requires appropriate placement.		
		<b>Credits</b>
		<b>17</b>
<b>Spring</b>		
GEOG 1000	WORLD REGIONAL GEOGRAPHY (*)	3
GEOG 1050	HUMAN-ENVIRONMENT GEOGRAPHY	4
ENGL 1160	ENGLISH COMPOSITION II (**)	3
CMST 1110	PUBLIC SPEAKING FUNDS	3
or CMST 2120	or ARGUMENTATION AND DEBATE	
STAT 1530	ELEMENTARY STATISTICS (***)	3
*GEOG 1000 is a social science and global diversity as well as a major course.		
**ENGL 1160: Requires ENGL 1150 with grade of C- or better or placement.		
***STAT 1530: Requires appropriate placement.		
		<b>Credits</b>
		<b>16</b>

**Sophomore**
**Fall**

Humanities/Fine Arts/US Diversity Course	3	
Natural/Physical Science Course*	3	
CSCI 1200 or CIST 1300	COMPUTER SCIENCE PRINCIPLES (**) or INTRODUCTION TO WEB DEVELOPMENT	3
Elective Course	3	
BS COGNATE COURSE***	3	

\*Must not be Geography

\*\*CSCI 1200 or CIST 1300: Requires MATH 1120 or MATH 1130 or MATH 1220 or MATH 1300 or equivalent with C- or better.

\*\*\*COGNATE COURSE: Multiple options exist, depending on whether a concentration is chosen. Please see catalog and refer to your advisor for options.

**Credits 15**

**Spring**

GEOG 3530	CARTOGRAPHY AND DATA VISUALIZATION (*)	4
CIST 1400	INTRODUCTION TO COMPUTER SCIENCE I (**)	3
HIST 1000 or Minor/2nd Major Course***		3
Social Science^		3
Humanities/Fine Arts course#		3

\*GEOG 3530: Requires GEOG 1000 or 1020 and GEOG 1030 or GEOG 1050

\*\*CIST 1400: Requires MATH 1300 or 1320, and either CSCI 1200 or CSCI 1280 or CSCI 1300 with C- or better. More options may exist for the computer science requirement. Please see a major advisor.

\*\*\*CAS College Requirement Option

^Social Science must not be Geography

#HFA must come from 2nd discipline

**Credits 16**

**Junior**
**Fall**

HIST 1010 or Minor/2nd Major Course*	3
Physical Geography Elective	3-4
Global Perspectives Geography Elective	3
Cognate Course	3
Elective**	

\*CAS College Requirement

\*\*Students need a minimum of 27 upper level credits throughout the entire degree, with at least 22 credits of upper level Geography credits taken within the major.

**Credits 12-13**

**Spring**

Human Geography Elective	3	
Humanity/Fine Arts course for A&S or Minor/ 2nd Major Course*	3	
Cognate Course	3	
ENGL 3050 or ENGL 3980	WRITING FOR THE WORKPLACE (**) or TECHNICAL WRITING ACROSS THE DISCIPLINES	3
Elective	3	

\*CAS College Requirement Option. HFA must come from 3rd discipline.

\*\*ENGL 3050 or 3980: Requires ENGL 1160 with grade of C- or better or placement via AP or EPPE.

Note: Students need a minimum of 27 upper level credits throughout the entire degree, with at least 22 credits of upper level Geography coursework taken within the major

**Credits 15**

**Senior**
**Fall**

North American Perspectives Geography Course	3
Geospatial Science Course*	3-4
Social Science for A&S or Minor/2nd Major Course**	3
Cognate Course or Elective	3
Elective***	3

\*Geospatial: This list includes a lower-level course among upper-level options. Minimum upper-level Geography credits within the major must total 22.

\*\*CAS College Requirement Option. Social Science must be from a 3rd discipline.

\*\*\*Students need a minimum of 27 upper level credits throughout the entire degree, with at least 22 credits of upper level Geography coursework taken within the major.

**Credits 15-16**

**Spring**

GEOG 4620	GEOGRAPHICAL FIELD STUDIES (*)	3
Elective		3
Elective		3
Elective		3
Elective		3

\*GEOG 4620: Requires instructor permission.

**Credits 15**

**Total Credits 121-123**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

**Additional Information About this Plan:**

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

**GPA Requirements: 2.0**