GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY CONCENTRATION

Geography, Bachelor of Arts with a Concentration in Geographic **Information Science and Technology Requirements**

Title	Credits
ON REQUIREMENTS - 46 Hours	

Minimum of "C-"required			
Fundamental Academic Skills			
ENGL 1150	ENGLISH COMPOSITION I		
ENGL 1160	ENGLISH COMPOSITION II		
ENGL 3050	WRITING FOR THE WORKPLACE		
or ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINES		
(Or another adviso course)	r-approved Writing in the Discipline		
CMST 1110	PUBLIC SPEAKING FUNDS		
or CMST 2120	ARGUMENTATION AND DEBATE		
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING		
or MATH 1100	DATA LITERACY AND VISUALIZATION		
or MATH 1130	QUANTITATIVE LITERACY		
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS		
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT		
or STAT 1100	DATA LITERACY AND VISUALIZATION		
or STAT 1530	ELEMENTARY STATISTICS		

Distribution Requirements		
Natural Science - From two disciplines and at least one lab -		
7 hrs		
Social Science - From two disciplines - 9 hrs		

Global Diversity - 3 hrs US Diversity - 3 hrs

MAJOR REQUIREMENTS

**Course will satisfy UNO's General Education requirement

Humanities and Fine Arts - From two disciplines- 9 hrs

Geography Major with a Concentration in Geographic Information Science and Technology - 42-60 Hours Required

The Bachelor of Arts degree with a major in Geography requires at 42-45 hours of major upper-level (3000-400

GEOGRAPHY (**)

Required Course	ework	27
GEOG 1000	WORLD REGIONAL GEOGRAPHY (**)	
GEOG 1020	INTRODUCTION TO HUMAN	

or coursework, of which 25 hours must be		
0) Geography courses.		
ork	27	
WORLD REGIONAL GEOGRAPHY (**)		

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GEOG 1030	OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)
GEOG 1050	HUMAN-ENVIRONMENT GEOGRAPHY (^)
CIST 1300	INTRODUCTION TO WEB DEVELOPMENT (^)
GEOG 3530	CARTOGRAPHY AND DATA VISUALIZATION
GEOG 4620	GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination.) ¹
STAT 1530	ELEMENTARY STATISTICS (^)
4.0 11 15	1104 B B 1 4

1 Geographical Field Studies Requirement

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

Select 9 credit hours of computer science coursework in

Geographic Information Science and Technology Concentration

consultation with an advisor		
Select one of the f	ollowing courses in Mathematics	3-6
MATH 1320 & MATH 1330	PRE-CALCULUS ALGEBRA and TRIGONOMETRY	
Or one of the follo	owing:	
MATH 1340	ALGEBRA AND TRIGONOMETRY FOR CALCULUS	
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES	
MATH 1950	CALCULUS I	
Additionally, selec	t one of the following*	3-4
GEOG 4020	SPATIAL ANALYSIS IN GEOGRAPHY	
GEOG 4030	COMPUTER MAPPING AND VISUALIZATION (^)	
GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I (^)	
GEOG 4660	GEOGRAPHIC INFORMATION SYSTEMS II (^)	

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*Can double-count wit	h Geospatial Science requirement below		
Geography diversity requirements			
Choose at least one	course in Physical Geography	3-4	
GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGMENT (^)		
GEOG 3510 & GEOG 3514	METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (^)		
GEOG 4010	CONSERVATION OF NATURAL RESOURCES		
GEOG/GEOL 4040	GEOARCHAEOLOGY		
GEOG/BIOL/GEOL 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/ENVN/	ENVIRONMENTAL MONITORING AND		

GEOL/BIOL 4610 ASSESSMENT

[^]Course requires pre-requisite(s)

GEOG 4640	CRITICAL ZONE SCIENCE	
	courses in Human Geography	6
GEOG 3040	HEALTH & MEDICAL GEOGRAPHY	
	ECONOMIC GEOGRAPHY	
GEOG 3440	NEBRASKA NATURAL RESOURCES	
0_0000	MANAGMENT (^)	
GEOG 3930	POLITICAL GEOGRAPHY	
GEOG 4010	CONSERVATION OF NATURAL RESOURCES	
GEOG 4120	URBAN GEOGRAPHY	
GEOG/WGST 4150	GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)	
GEOG 4160	URBAN SUSTAINABILITY (^)	
GEOG 4170	ADVANCED CULTURAL GEOGRAPHY	
GEOG 4550	GEOGRAPHY OF ECONOMIC GLOBALIZATION	
GEOG/PA/BIOL/ ENVN 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)	
Choose at least one	course in Global Perspectives	3
GEOG 3000	TRAVEL STUDY IN GEOGRAPHY	
GEOG 3030	GEOGRAPHY OF AFRICA (^)	
GEOG 3050	GEOGRAPHY IN FILM (^)	
GEOG 3070	GEOGRAPHY OF LATIN AMERICA (^)	
GEOG 3080	EAST & SOUTHEAST ASIA (^)	
GEOG 3230	GEOGRAPHY OF EUROPE (^)	
GEOG 3240	GEOGRAPHY OF RUSSIA AND ITS	
	NEIGHBORS (^)	
Choose at least one Perspectives	course in North American	3
GEOG 3330	UNITED STATES & CANADA (^)	
GEOG 4230	GREAT PLAINS & NEBRASKA	
GEOG 4530	HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)	
Choose at least one	course in Geospatial Science	3-4
GEOG 2620	AERIAL PHOTOGRAPHIC INTERPRETATION	
GEOG 4020	SPATIAL ANALYSIS IN GEOGRAPHY	
GEOG 4030	COMPUTER MAPPING AND VISUALIZATION (^)	
GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I (^)	
GEOG 4630	ENVIRONMENTAL REMOTE SENSING (^)	
GEOG 4660	GEOGRAPHIC INFORMATION SYSTEMS II (^)	
College Breadth (ch	. ,	15-30+
	ny UNO minor or undergraduate	
Option 2: Additional G	General Education Requirements - 19+	
Additional quantitative literacy 3 hours		
Additional quantitative literacy - 3 hours Additional Social Science Gen. Ed. from 3rd Discipline - 3		
hours Additional Humanities Gen. Ed. from 3rd Discipline - 3 hours HIST 1000 and HIST 1010 - 6 hours Additional Nat. and Physical Science w/ Lab - 4-5 hours		
Option 3: CAS comprehensive major (50+ hours) OR any second		
UNO major (30+ hours) Bachelor of Arts Language Requirement 16		
	1110** 1120 2110 2120	10

FREN, GERM, Or SPAN, 1110**, 1120, 2110, 2120

ELECTIVES

Elective hours as required to reach a total of 120 hours