GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY CONCENTRATION

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

and Technology Requirements					
	Code	•	redits	۶	
•	SENERAL EDUCATION	ON REQUIREMENTS - 46 Hours		5	
F	Required				
N	Minimum of "C-"requi	red			
F	undamental Acad	emic Skills	15	(
	ENGL 1150	ENGLISH COMPOSITION I			
	ENGL 1160	ENGLISH COMPOSITION II			
	ENGL 3050	WRITING FOR THE WORKPLACE			
	or ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINE	S		
	(Or another adviso course)	r-approved Writing in the Discipline		L	
	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		9	
	or STAT 1530	ELEMENTARY STATISTICS		•	
C	Distribution Requir	ements	31	F	
	Natural Science - F 7 hrs	rom two disciplines and at least one lab -			
	Social Science - Fro	m two disciplines - 9 hrs			
Humanities and Fine Arts - From two disciplines- 9 hrs					
	Global Diversity - 3 hrs				
	US Diversity - 3 hrs				
N	MAJOR REQUIREM	ENTS			
*	*Course will satisfy U	JNO's General Education requirement			
^	Course requires pre-	requisite(s)			
ı		vith a Concentration in Geographic e and Technology - 39-55 Hours			
	Required Coursewo	ork	24		
	GEOG 1000	WORLD REGIONAL GEOGRAPHY (**)			
	GEOG 1020	INTRODUCTION TO HUMAN GEOGRAPHY (**)			
	GEOG 1030	OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)			
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HUMAN-ENVIRONMENT GEOGRAPHY (^)

GEOG 1050

Geographic Infor	mation Science and Technology Concentratio	n 1
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 (^)	
1 Geographical Fiel	d Studies Requirement	
completed study abro months outside the US on the multiple day fie details regarding this	ompleting GEOG 4620: Students who have ad, or military service for more than six SA can complete the course without going ald trip. Contact the department for the alternative method.	
Concentration	ation Science and Technology	
Select 9 credit hour consultation with a	s of computer science coursework in n advisor	9
Select one of the fo	llowing courses in Mathematics	3-6
MATH 1320 & MATH 1330	PRE-CALCULUS ALGEBRA and TRIGONOMETRY	
Or one of the following	g:	
MATH 1340	ALGEBRA AND TRIGONOMETRY FOR CALCULUS	
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES	
MATH 1950	CALCULUS I	
•	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 (^)	
	th Geospatial Science requirement below	
Geography diversity	y requirements If one course from each of the groups	15-16
of Geography Diver		13-10
Physical Geography	/:	
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

GEOG/ECON 3130 ECONOMIC GEOGRAPHY

CRITICAL ZONE SCIENCE

HEALTH & MEDICAL GEOGRAPHY

GEOG 4640

GEOG 3040

Human Geography:

GEOG 3440	NEBRASKA NATURAL RESOURCES 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 (^)			
Global Perspective	s:			
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 (^)			
North American Pe	rspectives:			
GEOG 3330	UNITED STATES & CANADA (^)			
GEOG 4230	GREAT PLAINS & NEBRASKA			
GEOG 4530	HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)			
Geospatial Science	:			
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 (c	• ,	15-30 +		
Option 1: Complete of certificate - 15+ hour	ny UNO minor or undergraduate s			
Option 2: Additional hours	General Education Requirements - 19+			
	Additional quantitative literacy - 3 hours			
Additional Social S hours				
Additional Human	ities Gen. Ed. from 3rd Discipline - 3 hours			
	d Physical Science w/ Lab - 4-5 hurs			
Option 3: CAS compr	ehensive major (50+ hours) OR any second			
UNO major (30+ hours) Bachelor of Science Cognate Requirement				
See Advisor	c oognate nequirement	0-15		
ELECTIVES				

Elective hours as required to reach a total of 120 hours