

Geographic Information Science, B.S. Fall 2019

Program Total: 120 hours (Incl. Gen. Ed.: 42 hours) Residency Requirement: min. 24 Upper Division hours must be taken at KSU

LOWER DIVISION MAJOR REQUIREMENTS (AREA F): 18 Hours

	GEOG 1102: Earth from Above
	GEOG 2391: Professionalism and Ethics
	Select ONE (3 credit hours)
	GEOG 1101: Introduction to Human Geography
	GEOG 1125: Resources, Society, and the Environment
	GEOG 1130: World Geography

Select ONE (3 credit hours)	
	GEOG 1112: Weather and Climate
	GEOG 1113: Introduction to Landforms
Choose any TWO 1000/2000 level courses-any discipline (6 hours)	

UPPER DIVISION MAJOR REQUIREMENTS: 21 Hours

Required:	
	GEOG 3305: Introduction to Cartographic Processes
	GEOG 3315: Introduction to Geographic Information Systems
	GIS 3398: Internship
	Select ONE course from the following (3 credit hours)
	GEOG 2200: Research Methods
	EDG 2160: Civil Graphic and Computer Aided Drafting
	IS: 2200 Information Systems and Communication
	TCOM 2010: Technical Writing
	Select ONE course from the following (3 credit hours)
	GEOG 4405: Advanced Geographic Information Systems
	GEOG 4500: Advanced Topics in Geospatial Science
	Select ONE course from the following (3 credit hours)
	GIS 4100: Directed Applied Research
	GEOG 4100: Directed Applied Research
	GEOG 4499 Senior Seminar in Geography
	Study Abroad 3000-4000 level (any subject)

Geospatial Skills -Select FOUR from the following (12 credit hours)

Note: GEOG 4500 may be taken more than once if topics are different.

	GEOG 4405: Advanced Geographic Information Systems
	GEOG 4410: Introduction to Remote Sensing
	GEOG 4500: Advanced Topics in Geospatial Science
	GIS 4100: Directed Applied Research
	SURV 3320: Photogrammetry and Remote Sensing
	SURV 3451: Terrain Analysis

FREE ELECTIVES: 15 Hours

Students may choose any courses from the University Catalog.

Human-Environmental Systems OR Information Systems	
Choose FOUR courses required from concentration (12 credit hours total)	
Human-Environmental Systems concentration	
Select one Physical and Environmental Course (3 credit hours)	
	ANTH 4430: Environmental Anthropology Field Methods
	ENVS 3720: Sustainability at KSU
	ENVS 3730: Natural Resource Management
	GEOG 3700 Introduction to Environmental Studies
	GEOG 3710 Local & Global Sustainability
	GEOG 3800: Climatology
	GEOG 3850: Global Climate Change
	GEOG 3900: Biogeography
	GEOG 4700: Geomorphology
	POLS 3356: U.S. Environmental Policy & Politics
	POLS 4456: International Environmental Policy
Human-Environmental Systems concentration	
Select one Human and Society Course (3 credit hours)	
	ANTH 3307: Cultural Anthropology
	GEOG 3000: Geography of Beer
	GEOG 3300: Urban Geography
	GEOG 3310: Historical Geography
	GEOG 3320: Political Geography
	GEOG 3330: Economic Geography
	GEOG 3340: Cultural Geography
	POLS 4412 Urban Affairs and Problems
	SOCI 4432: Criminology
	SOCI 4464: Population
Human-Environmental Systems concentration – (6 credit hours)	
Select any TWO additional courses from either of the above categories	
Information Systems concentration (select any four courses = 12 credit hours)	
	IS 3020: Application Development I
	IS 3100: Information Systems Management
	IS 3220: Global IS Project Management
	IS: 3260 Web Development I
	IS 3280: Data Management
	IS 3740: Human Computer Interaction
	IS 3760: Web Development II
	IS 4560: e-Business Systems
	ISA 3100: Principles of Information Security

GPA _____
 MINOR _____

NAME _____
 KSU# _____

Department of Geography & Anthropology - GIS MAJOR Fall 2019

General Education Requirements

Area A1: Communication - 6 Credit Hours	
ENGL 1101:Composition I	
ENGL 1102:Composition II	

Area A2: Quantitative - (3 to 4 Credit Hours)	
Select one from the following:	
MATH 1101:Introduction to Mathematical Modeling	
MATH11** - see catalog	

Area B: Institutional Option - Critical Thinking	
B1: Contemporary Economic Issues -2 Credit Hours	
ECON 1000:Contemporary Economic Issues	

B2: Cultural Perspectives - 3 Credit Hours	
Select one from the following:	
AADS 1102:Issues in African and African Diaspora Studies	
AMST 1102:American Identities	
ASIA 1102:Introduction to Asian Cultures	
COM 1100:Human Communication	
FL 1002:Introduction to Foreign Language and Culture II	
GWST 1102:Love and Sex	
LALS 1102:Understanding Latin America	
LDRS 2300:Leadership & Intercultural Competence	
PAX 1102:Understanding Peace and Conflict	
PHIL 2200:Ways of Knowing	
POLS 2401:Global Issues	
RELS 1102:Introduction to Religion	

Area C: Humanities, Fine Arts, and Ethics	
C1: Literature of the World - 3 credit hours	
ENGL 2*** - see catalog	

C2: Arts and Culture of the World - 3 credit hours	
Select one from the following:	
ART 1107:Art in Society	
DANC 1107:Dance in Society	
MUSI 1107:Music in Society	
TPS 1107:Theatre in Society	

Area D: Science, Mathematics & Technology	
D1: Applied Math (3 to 4 Credit Hours)	
Select one from the following:	
STAT 1401:Elementary Statistics (RECOMMENDED)	
OTHER:	

D2: Science Process	
Group One - 4 credit hours	
GEOG 1112:Weather and Climate -or-	
GEOG 1113:Introduction to Landforms (C or better)	
OTHER:	

Group Two (3-4 credit hours)	
GEOG 1112:Weather and Climate -or-	
GEOG 1113:Introduction to Landforms (C or better)	
OTHER:	

Area E: Social Sciences	
E1: U.S. Government -3 Credit Hours	
POLS 1101:American Government	

E2: U.S. History - 3 Credit Hours	
Select one from the following:	
HIST 2111:United States History to 1877	
HIST 2112:United States History Since 1877	

E3: World History - 3 Credit Hours	
Select one from the following:	
HIST 1100:Introduction to World History	
HIST 1111:Pre-Modern World History	
HIST 1112:Modern World History	

E4: Social Sciences - 3 Credit Hours	
Select one from the following:	
CRJU 1101:Foundations of Criminal Justice	
GEOG 1101:Introduction to Human Geography	
PSYC 1101:Introduction to General Psychology	
SOCI 1101:Introduction to Sociology	
STS 1101:Science, Technology, and Society	
ANTH 1102:Introduction to Anthropology	
ECON 2100:Principles of Microeconomics	