

# KANSAS STATE UNIVERSITY

College of Arts and Sciences

## Geographic Information Systems & Technology BS (2023-24)

### Major Requirements Credit Grade

#### Math, Science & Social Science (27 hours)

BIOL 198 - Principles of Biology	4	
GEOG 100 - World Geography & Globalization	3	
GEOG 121 - Intro Phys Geog: Earth Systems Science	3	
GEOG 122 - Earth Systems Science Lab	1	
MATH 205 OR MATH 220	(3-4)	
PHYS 101 - The Physical World	3	
PHYS 103 - The Physical World Lab	1	
STAT 325 OR STAT 340	3	
STAT 341 OR MATH 221	(3-4)	

#### Computational Core (23 hours)

CC 110 - Introduction to Computing	3	
CC 210 - Fund Computer Programming Concepts	4	
CC 310 - Data Structures and Algorithms I	3	
CC 315 - Data Structures and Algorithms II	3	
CC 410 - Advanced Programming	4	
CC 520 - Database Essentials	3	
CMST 135 - Web Fundamentals	3	

#### Geospatial Core (25 hours)

GEOG 302 - Cartography and Thematic Mapping	3	
GEOG 508 - Geographic Information Systems I	4	
GEOG 602 - Comp Mapping and Geog Visualization	3	
GEOG 605 - Remote Sensing of the Environment	3	
GEOG 608 - Geographic Information Systems II	3	
GEOG 705 OR GEOG 706 OR GEOG 707	3	
GEOG 712 - Internet GIS & Distrib Geog Info Services	3	
GEOG 728 - Programming for Geographic Analysis	3	

#### Experimental Learning (1 hour)

GEOG 497 OR GEOG 610	1	
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#### Capstone Experience (2 hours)

GEOG 495 - Capstone Seminar in Geography	2	
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### TRANSFER CREDITS PRESENTED

*Only 1/2 of the hours required for a KSU Degree can be applied from a two-year college.*

College or University	Hours

K-State 8	Completed?
Aesthetic Interpretation	
Historical Perspectives	
Global Issues and Perspectives	
Ethical Reasoning and Responsibility	
Empirical and Quantitative Reasoning	
Human Diversity within the U.S.	
Natural and Physical Sciences	
Social Sciences	

Free Electives

**\*20 of the last 30 credit hours must be K-State coursework  
\*45 credit hours at the 300 level or above are required for graduation**

Graduation Requirements	
TOTAL hours required	120
KSU graded hours attempted	
KSU non-graded hours applied	<i>Plus:</i> _____
Transfer credit hours applied	
KSU hours of F	<i>Less:</i> _____
Below 100 level course	
Extra Activity Hours	
<b>Total:</b>	_____

**CURRENT SEMESTER:** \_\_\_\_\_  
**REMAINING HOURS:** \_\_\_\_\_  
**REMAINING 300+ HOURS:** \_\_\_\_\_  
**OVERALL KSU GPA** \_\_\_\_\_

Name \_\_\_\_\_  
WID \_\_\_\_\_  
Entrance Date \_\_\_\_\_

BASIC REQUIREMENTS	HR	GR
Expository Writing I (3)		
Expository Writing II (3)		
Public Speaking (2-3)		
Humanities: 4 courses (11)		
1. Fine Arts		
2. Philosophy (except Logic)		
3. Western Heritage		
4. Literary or Rhetorical Arts		
Social Science: 4 courses (12)		
1		
2		
3		
4 (course w/ prereq in same dept or 500-level or above)		
Natural Sciences: 4 courses (14)		
1. Life Science with Lab		
2. Physical Science with Lab		
3. Course w/ prereq in same department		
4. Life or Physical Science		
Quantitative: (4-9)		
1.		
2.		
3.		
International Overlay: 1 course (3)		
US Multicultural Overlay: 1 course (3)		
<b>Retakes</b>		
1. 3.		
2. 4.		
<b>Activity Hours - 4 - 8 hours</b>		
1. 3.		
2. 4.		

Advisor: \_\_\_\_\_

Date: \_\_\_\_\_