

# Bachelor of Science in Geospatial Sciences

2020 Catalog Year

Name: \_\_\_\_\_ KSU ID: \_\_\_\_\_ Institutional GPA: \_\_\_\_\_ Date: \_\_\_\_\_

## General Education Requirements

<p><b><u>Area A: Essential Skills</u></b></p> <p>A1: ENGL 1101 _____</p> <p>A1: ENGL 1102 _____</p> <p>A2: Choose one: MATH 1101, MATH 1111, MATH 1113, MATH 1190, STAT 1401 _____</p> <p><b><u>Area B: Institutional Options</u></b></p> <p>B1: ECON 1000 _____</p> <p>B2: Choose one: AADS 1102, AMST 1102, ASIA 1102, CHIN 1002, 2001, 2002, COM 1100, FL 1002 (Arabic), FREN 1002, GRMN 1002, GWST 1102, HEBR 1002, ITAL 1002, JPN 1002, KOR 1002, LALS 1102, LATN 1002, LDRS 2300, PAX 1102, PERS 2700, PHIL 2200, POLS 2401, PORT 1002, RELS 1102, RUSS 1002, SPAN 1002 _____</p> <p><b><u>Area C: Humanities/Fine Arts</u></b></p> <p>C1: Choose one: ENGL 2110, ENGL 2111, ENGL 2112, ENGL 2120, ENGL 2121, ENGL 2122, ENGL 2130, ENGL 2131, ENGL 2132, ENGL 2300, PHIL 2010 _____</p> <p>C2: Choose one: ART 1107, DANC 1107, MUSI 1107, TPS 1107 _____</p>	<p>Completed/Plan</p>	<p><b><u>Area D: Science, Mathematics, and Technology</u></b></p> <p>D1: Choose one: MATH 1113, MATH 1160, MATH 1190, MATH 2202, STAT 1401 _____</p> <p>D2: Choose two: BIOL 1107+L, BIOL 1108+L, CHEM 1151+L, CHEM 1152+L, CHEM 1211+L, CHEM 1212+L, PHYS 1111+L, PHYS 1112+L, PHYS 2211+L, PHYS 2212+L, SCI 1101, SCI 1102, GEOG 1112, GEOG 1113 _____</p> <p><b><u>Area E: Social Sciences</u></b></p> <p>E1: POLS 1101 _____</p> <p>E2: Choose one: HIST 2111, HIST 2112 _____</p> <p>E3: Choose one: HIST 1100, HIST 1111, HIST 1112 _____</p> <p>E4: Choose one: ANTH 1102, CRJU 1101, GEOG 1101, PSYC 1101, SOCI 1101, STS 1101, ECON 2106 _____</p>	<p>Completed/Plan</p>
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Lower Division Major Requirements (18 credit hours)	Upper Division Major Requirements (24 credit hours)
<p style="text-align: right;">Completed/Plan</p> <p>GEOG 1102 Earth from Above _____ <i>Prereq: none</i></p> <p>GEOG 2391 Professionalism and Ethics _____ <i>Prereq: GEOG 1101 or 1102 or 1112 or 1113 or 1125 or 1130</i></p> <p><b><u>Select one of the following (3 credit hours):</u></b></p> <p>GEOG 1101 Introduction to Human Geography _____ <i>Prereq: none</i></p> <p>GEOG 1125 Resources, Society, and the Environment _____ <i>Prereq: none</i></p> <p>GEOG 1130 World Regional Geography _____ <i>Prereq: none</i></p> <p><b><u>Select one of the following (4 credit hours)</u></b></p> <p>GEOG 1112 Weather and Climate _____ <i>Prereq: none</i></p> <p>GEOG 1113 Introduction to Landforms _____ <i>Prereq: none</i></p> <p><b><u>Lower Division Electives (6 credit hours)</u></b> <i>Choose any two 1000 or 2000 level courses from any discipline.</i></p> <p>_____</p> <p>_____</p>	<p style="text-align: right;">Completed/Plan</p> <p>GEOG 3305 Introduction to Cartographic Processes _____ <i>Prereq: none</i></p> <p>GEOG 3315 Introduction to Geographic Information Systems _____ <i>Prereq: none</i></p> <p>GEOG 4405 Advanced Geographic Information Systems _____ <i>Prereq: GEOG 3305 and GEOG 3315</i></p> <p>GEOG 4410 Introduction to Remote Sensing _____ <i>Prereq: SURV 3320</i></p> <p>SURV 3320 Photogrammetry and Drone Analysis _____ <i>Prereq: GEOG 3315</i></p> <p><b><u>Group A: GIS and Remote Sensing (select two - 6 credit hours)</u></b></p> <p>GEOG 4500 Advanced Topics in Geospatial Science _____ <i>*Topic: _____</i> <i>Prereq: GEOG 3305 and GEOG 3315</i> <i>*Special Topics course - may be repeated for credit if topics are different</i></p> <p>GIS 3398 Internship _____ <i>Prereq: GEOG 4405 or GEOG 4500 and permission of the GIS program director</i></p> <p>GIS 4100 Directed Applied Research _____ <i>Prereq: GEOG 3305 or GEOG 3315 and consent of instructor and chair</i></p> <p>SURV 3451 Terrain Analysis _____ <i>Prereq: SURV 3320</i></p> <p><b><u>Group B: Major Field Courses (select one - 3 credit hours)</u></b></p> <p>GEOG 4100 Directed Applied Research _____ <i>Prereq: varies</i></p> <p>GEOG 4499 Senior Seminar in Geography _____ <i>Prereq: at least 18 credit hours upper-division geography courses and permission of the instructor</i></p> <p>_____ Upper Division Study Abroad _____ <i>Prereq: varies</i></p>

**Concentration Requirements (36 credit hours) – Select One Concentration**

**Human Environmental Concentration**

	Completed/Plan		Completed/Plan
GEOG 2200 Research Methods <b>OR</b>	_____	<b>Human and Society (select one - 3 credit hours)</b>	
TCOM 2010 Technical Writing	_____	ANTH 3307 Cultural Anthropology	_____
GIS 3398 Internship (6 credit hours)	_____	GEOG 3000 Geography of Beer	_____
		GEOG 3300 Urban Geography	_____
<b>Physical and Environmental (select one - 3 credit hours)</b>		GEOG 3310 Historical Geography	_____
ANTH 4430 Environmental Anthropology Field Methods	_____	GEOG 3320 Political Geography	_____
ENVS 3720 Sustainability at KSU	_____	GEOG 3330 Economic Geography	_____
ENVS 3730 Natural Resource Management	_____	GEOG 3340 Cultural Geography	_____
GEOG 3700 Intro to Environmental Studies	_____	GEOG 3345 Population Geography	_____
GEOG 3800 Climatology	_____	POLS 4412 Urban Affairs and Problems	_____
GEOG 3850 Global Climate Change	_____	SOCI 4464 Population and Demography	_____
GEOG 3900 Biogeography	_____	<b>Free Electives (15 credit hours)</b>	
GEOG 4700 Geomorphology	_____	These may be any courses not already applied elsewhere. Minor and certificate courses can be applied here. Please take into account any required prerequisites.	
POLS 3356 U.S. Environmental Policy & Politics	_____	_____	_____
POLS 4456 International Environmental Policy	_____	_____	_____
<b>Upper Division Concentration Electives (6 credit hours)</b>		_____	_____
Select two courses that you have not already completed from the Physical and Environmental and/or Human and Society areas.		_____	_____
Courses:		_____	_____
_____	_____		
_____	_____		

**Information Systems Concentration**

	Completed/Plan		Completed/Plan
IS 2200 Information Systems and Communication	_____	<b>Concentration Electives (select four - 12 credit hours)</b>	
GIS 3398 Internship (6 credit hours)	_____	IS 3020 Application Development I	_____
<b>Free Electives (15 credit hours)</b>		IS 3100 Information Systems Management	_____
These may be any courses not already applied elsewhere. Minor and certificate courses can be applied here. Please take into account any required prerequisites.		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	_____

**Land Surveying Concentration**

	Completed/Plan		Completed/Plan
EDG 2160 Civil Graphics and Computer Aided Drafting	_____	<b>Land Surveying Certificate (required part of the concentration)</b>	
SURV 3451 Terrain Analysis	_____	SURV 2221 Surveying I	_____
SURV 4110 Geospatial Sciences Practice	_____	SURV 2221L Surveying I Lab	_____
<b>Free Electives (9 credit hours)</b>		SURV 3222 Surveying II	_____
These may be any courses not already applied elsewhere. Minor and certificate courses can be applied here. Please take into account any required prerequisites.		SURV 3222L Surveying II Lab	_____
_____	_____	SURV 4465 Legal Aspects of Land Surveying	_____
_____	_____	SURV 4470 Land Development Design	_____
_____	_____	SURV 4475 Land Surveying Practice	_____