

**2020-2021 B.S. Geospatial Science
Geoinformatics concentration**

UNIVERSITY CORE

COLLEGE CORE

A. Core Foundations

CORE 101	_____	3
CORE 102	_____	3
HNRS 103*	_____	3
CORE 201 PHIL 111: 213	_____	3
CORE 202 PHIL 112	_____	3

B. Core Skills & Knowledge

MATHEMATICAL SCIENCES MATH 137, 138, or 171 _____ 3
NATURAL SCIENCES One of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 111: 112, 120 GEOL 100, 105: 106 PHYS 111: 112, 221: 222
HUMANITIES One of the following: CLSS:110 CCST: 110 ENGL 200, HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206
VISUAL & PERFORMING ARTS One of the following: ART 100, 215, 216, CVPA 266, DNCE 111, MUSC 100, 121, 123 THEA 100, 180
SOCIAL/BEHAV. SCIENCES GEOG 101 or 102 or 103 _____ 3

A. National & International Perspectives

U. S. PERSPECTIVES One of the following: APST 200 ECON 101, 205, 206, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110
GLOBAL PERSPECTIVES (3 SH) One of the following: CVPA 266, ENGL 201,202 CCST 103; GEOG 101, 102, 140, 280 HIST 101, 102 INST 101, ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180; WMST 200

B. Supporting Skills & Knowledge

NATURAL SCIENCES One of the following: ASTR 111, 112 BIOL 103, 104, 105 CHEM 111: 112, 120 GEOL 100, 105:106 PHYS 111: 112, 221:222
HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES One of the following: CLSS 110 CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206; CVPA 266; Or ART 100, 215, 216 DNCE 111, MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 ARAB 101, 102, 201, 202, FORL 100, 109, 200, 210, 209, 309, 409; FREN 100, 200:210, 300, 320 GRMN 100, 200: 210, 300 LATN 101 102, 201, 350; RUSS 101, 200, 210, 300; SPAN 101: 102, 105 201, 202
SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS One of the following: ANSC 101, APST 200 ECON 205, 206 GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121 HLTH 111,200, NUTR 214 RCPT 200

NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use two courses with their major prefix to fulfill core requirements.

*Honors College course

GEOS Major with Geoinformatics concentration

				Term	Prerequisites
GEOS	103	_____ (3)	Intro to Human Geography	F/S/SU	
GEOS	125	_____ (3)	Intro to Geospatial Data & Technologies	F/S	3 hours of GEOG/GEOS or Instructor permission
GEOS	130	_____ (4)	Physical Geography		F/S
GEOS	140	_____ (3)	Intro to Environmental Studies	F/S	
GEOS	250	_____ (4)	Intro to GIS		F/S/SU/winter
GEOS	270	_____ (4)	Intro to Cartography	F/S	GEOS 125 and GEOS 250
GEOS	380	_____ (4)	Spatial Analysis Techniques		GEOS 250 and STAT 200
GEOS	490	_____ (3)	Field Research Methods	F	Junior or Senior standing
GEOS	496	_____ (3)	Senior Capstone Project	S	Last semester senior standing; major in geospatial science

Additional Courses Required for the GEOINFORMATICS Concentration:

GEOS	315	_____ (4)	Intermediate GIS Concepts	F/S	GEOS 250
GEOS	410	_____ (4)	Advanced GIS	S	GEOS 125, 250 and 315
GEOS	425	_____ (4)	Remote Sensing	S	MATH 137, GEOS 130 or GEOL 105, and GEOS 125, GEOS 380
GEOS	480*	_____ (1-4)	Seminar	F/S/SU	Junior or Senior standing
	OR				
GEOS	498*	_____ (1-6)	Independent Study	F/S	
ENGL	306	_____ (3)	Professional Writing (Required)	F/S/SU	CORE 101 & 102
ITEC	304	_____ (3)	Database from the Manager's Perspective	F/S	
STAT	200	_____ (3)	Introduction to Statistics	F/S	STAT

Three courses selected from the following list:

ARTG	280	_____ (3)	Introduction to Graphic Design		ARTS 101 with a grade of "C" or better.
ENGL	406	_____ (3)	Advanced Technical Writing		ENGL 306
ITEC	120	_____ (4)	Principles of Computer Science		"C" or better in MATH 125 or MATH 138; or credit for MATH 126, MATH 168, or MATH 171; or permission of instructor
ITEC	122	_____ (3)	Discrete Mathematics		ITEC 120 Grade of "C" or better & MATH 171 or 169
ITEC	220	_____ (4)	Principles of Computer Science II		ITEC 120 Grade of "C" or better
MATH	138	_____ (3)	Pre-calculus Function Analysis		C or better in MATH 137, or a passing score on a placement exam
MATH	171	_____ (4)	Calculus and Analytic Geometry I		C or better in MATH 138, or college precalc, or placement exam
MATH	172	_____ (4)	Calculus and Analytic Geometry II		C or better in either MATH 171 or MATH 169.
MATH	168	_____ (3)	Calculus I with Integrated Precalculus I		C or better in MATH 137, or passing score on a placement exam
MATH	169	_____ (3)	Calculus I with Integrated Precalculus II		C or better in MATH 137, or passing score on a placement exam
MATH	271	_____ (4)	Calculus and Analytic Geometry III		MATH 172

B.S. Requirements (8 hrs.) Eight additional hours of natural science courses.

Internships are strongly recommended. Credit for internships may be gained through GEOS 499. Internships are taken pass/fail and cannot be used to fulfill requirements of the concentration.