

This curriculum expires in 6 years.

\* Asterik Symbol=Upper division hours

+Plus Symbol=Double counting core and major requirement

**Degree: Bachelor of Science**

**Major: Geographic Information Science**

**IMPORTANT NOTES:**

\*The Core Curriculum Math and Science courses listed below are the required courses for this program and may be different if a student changes majors.

\*See your Faculty Mentor every semester (REQUIRED). See your Academic Advisor as needed.

\*Students are responsible for taking courses in the proper sequence to ensure orderly progression of work

**A minimum 2.5 in the major field of study (GISC Core) is required to graduate.**

I. UNIVERSITY CORE CURRICULUM		SCH	PREREQUISITES	TERM
COMM 1311	FOUNDATION OF COMMUNICATION	3	n/a	all
ENGL 1302	WRITING & RHETORIC	3	n/a	all
PHILOSOPHY & CULTURE	CHOOSE ONE: ENGL 2316, 2332, 2333 PHIL 1301, 2306 SPAN 3307, 3308, 3309, 3310	3	varies	all
CREATIVE ARTS	CHOOSE ONE: ARTS 1301, 1303 MEDA 1305 MUSI 1306, 1307 THEA 1310	3	n/a	all
HIST 1301	US HISTORY TO 1865	3	n/a	all
HIST 1302	US HISTORY SINCE 1865	3	n/a	all
POLS 2305	US GOVT & POLITICS	3	n/a	all
POLS 2306	STATE & LOCAL GOVT	3	n/a	all
SOCIAL SCIENCE	CHOOSE ONE: ECON 2301, 2302, PSYC 2301, SOCI 1301	3	n/a	all
MATH 2413	CALCULUS I	4	MATH placement	all
PHYS 2425	UNIVERSITY PHYSICS I	4	MATH 2413	all
PHYS 2426	UNIVERSITY PHYSICS II	4	PHYS 2425, MATH 2414	all
+COMPONENT AREA	<b>MATH 2414 CALCULUS II</b>	4	MATH 2413	all

**II. FOUNDATIONS REQUIRED FOR THE GEOGRAPHIC INFORMATION SCIENCE PROGRAM**

MATH 2414	CALCULUS II (see CAO above on count)			
MATH 3342	APPLIED PROBABILITY AND STATISTICS	3	MATH 2413	fall/sprin
COSC 1435	INTRODUCTION TO PROBLEM SOLVING	4	MATH 1314 or beyond	all

**III. CORE REQUIRED FOR THE GEOGRAPHIC INFORMATION SCIENCE PROGRAM**

GISC 1336	DIGITAL DRAFTING AND DESIGN	3	n/a	spring
GISC 1470	GEOSPATIAL SYSTEMS I	4	n/a	fall/sprin
GISC 2438	GEOSPATIAL SOFTWARE SYSTEMS I	4	GISC 1470 & COSC 1435	fall
GISC 2250	FIELD CAMP I	2	GISC 2470	January
GISC 2470	GEOSPATIAL PLANE MEASUREMENT I	4	MATH 1316 or MATH 2413	fall
GISC 2301	GEOSPATIAL SYSTEMS II	3	GISC 1470	spring
*GISC 3300	GEOSPATIAL MATHEMATICAL TECHNIQUES	3	MATH 2413 & 3342	fall
*GISC 3325	GEODETIC SCIENCE	3	GISC 2470	spring
*GISC 3412	GEOSPATIAL PLANE MEASUREMENT II	4	GISC 2470 and coreq GISC	spring
*GISC 3420	GEOSPATIAL SOFTWARE SYSTEMS II	4	GISC 2438	spring
*GISC 3421	VISUALIZATION FOR GIS	4	GISC 2301	spring
*GISC 4180	GEOSPATIAL SYSTEMS INTERNSHIP	1	60 semester hours (Jr. Standing)	summer
*GISC 4305	LEGAL ASPECTS OF SPATIAL INFORMATION	3	GISC 2470, GISC 3300 & MATH	spring
*GISC 4315	SATELLITE POSITIONING	3	GISC 2470, MATH 2413	fall
*GISC 4318	CADASTRAL SYSTEMS	3	GISC 2470	fall
*GISC 4335	GEOSPATIAL SYSTEMS III	3	GISC 2301, GISC 3421 & MATH	fall
*GISC 4340	GEOSPATIAL COMPUTATIONS & ADJ.	3	GISC 2470, GISC 3300 & MATH	spring
*GISC 4350	FIELD CAMP II	3	GISC 3412, GISC 4318, & GISC	January
*GISC 4351	GEOSPATIAL SYSTEMS PROJECT	3	GISC 4350 or 4335	spring
*GISC 4371	HISTORY OF TX LAND OWNERSHIP	3	GISC 3412	spring
*GISC 4431	REMOTE SENSING	4	GISC 3300, PHYS 2425 &	fall

**6 hours of MATHEMATICS and/or sciences:**

MATH 2305 Discrete Mathematics  
MATH 2415 Calculus III  
\*MATH 3311 Linear Algebra

Or one Upper Division MATH ELECTIVE (3 semester hrs.) AND Science can be any Natural Science course (based on scientific method) above 2000, or any Natural Science course that satisfies the laboratory science group (cannot satisfy both).

**IV. DESIGNATED ELECTIVES (CHOOSE ONE COURSE FROM BELOW)**

*GISC 4320	HYDROGRAPHY	3	GISC 2470, MATH 2413	Spring
*GISC 4590	SELECTED TOPICS (APPROVED BY FACULTY)	3	Varies	

**V. UNIVERSITY REQUIREMENTS**

FOREIGN LANGUAGE (2 SEMESTERS)		6	Met via HS Transcript or College-level	
UCCP 1101	FIRST-YEAR SEMINAR	1	n/a	
UCCP 1102	FIRST-YEAR SEMINAR	1	n/a	

TOTAL HOURS: 126