

**TEXAS A&M UNIVERSITY-CORPUS CHRISTI**  
**BACHELOR OF SCIENCE IN GEOGRAPHIC INFORMATION SCIENCE- TENTATIVE CURRICULUM SHEET**  
**MASTER OF SCIENCE GEOSPATIAL SURVEYING ENGINEERING**

Name: \_\_\_\_\_  
 ID#: \_\_\_\_\_

Emphasis: **FAST TRACK**  
 Catalog Year: **2018-19**

**IMPORTANT NOTES:**

- \*Must apply to the 5 year program in the junior year and have at least a 3.0 overall GPA and will have 90 hrs earned at the end of junior year
- \*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.
- \*Any changes/exceptions to this Degree Plan must be filed via the Undergraduate/Graduate Degree Plan Exceptions Form (see your advisor)
- \*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

**I. UNIVERSITY CORE CURRICULUM**

		Grd	Hrs	Prerequisites	Term Offered
COMM 1311	FOUNDATION OF COMMUNICATION		3	n/a	all
ENGL 1302	WRITING & RHETORIC		3	n/a	all
Lang,Phil,Culture	SEE LIST IN CATALOG FOR CHOICES		3	varies	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
Creative Arts	SEE LIST IN CATALOG FOR CHOICES		3	n/a	all
Social Science	SEE LIST IN CATALOG FOR CHOICES		3	n/a	all
MATH 2413	CALCULUS I		4	Math placement	all
MATH 2414	CALCULUS II		4	Math 2413	all
PHYS 2425	UNIVERSITY PHYSICS I		4	Math 2413	all
PHYS 2426	UNIVERSITY PHYSICS II		4	Phys 2425, Math 2414	all

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

COSC 1435	PROBLEM SOLVING WITH COMPUTERS I		4	Math 1314 or beyond	all
MATH 3342	APPLIED PROBABILITY AND STATISTICS		3	Math 2413	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/spring
GISC 2250	FIELD CAMP I		2	Gisc 2470	January
GISC 2301	GEOSPATIAL SYSTEMS II		3	Gisc 1470	spring
GISC 2438	GEOSPATIAL SOFTWARE SYSTEMS I		4	Gisc 1470 and Cosc 1435	fall
GISC 2470	GEOSPATIAL PLANE MEASUREMENT I		4	Math 1316 or Math 2413	fall
GISC 3300	GEOSPATIAL MATH TECHNIQUES		3	Math 2413 and Math 3342	fall
GISC 3325	GEODETTIC SCIENCE		3	Gisc 2470	spring
GISC 3412	GEOSPATIAL PLANE MEASUREMENT II		4	Gisc 2470 and coreq GISC 1336	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	junior level standing	all
GISC 4305	LEGAL ASPECTS OF SPATIAL INFO		3	Gisc 2470	spring
GISC 4315	SATELLITE POSITIONING		3	Gisc 2470 and Math 2413	fall
GISC 4335	GEOSPATIAL SYSTEMS III		3	Gisc 2301 and Gisc 3421 and Math 3342	fall
GISC 4340	GEOSPATIAL COMPUTAIONS & ADJ.		3	Gisc 2470, Gisc 3300, Math 2413, Math 3342	fall
GISC 4350	FIELD CAMP II		3	Gisc 3412, 4318, 2250	January
GISC 4371	HISTORY OF TX LAND OWNERSHIP		3	Gisc 3412	spring
GISC 4431	REMOTE SENSING		3	PHYS 2425, MATH 3342 + GISC 3300	fall

**IV. \* GEOSPATIAL SURVEYING ENGINEERING M.S. DEGREE PROGRAM COMBINED WITH B.S. DEGREE**

**GEOSPATIAL SURVEYING ENGINEERING CORE**

GSEN 5383	ADVANCED GEOSPATIAL ANALYSIS & DESIGN		3
GSEN 5384	GEOSPATIAL VISUALIZATION DESIGN		3

**THESIS OPTION STUDENTS MUST COMPLETE 18 HOURS / PROJECT OPTION STUDENTS MUST COMPLETE 24 HOURS**

**GEOSPATIAL SURVEYING ENGINEERING ELECTIVES**

GSEN 5355	DESIGN AND ANALYSIS OF GIS APPL		3
GSEN 5365	SPATIAL DATABASE DESIGN		3
GSEN 5381	CADASTRAL INFORMATION SYSTEMS		3
GSEN 5382	POLICY & LGL ASPECTS SPATIAL INFO SYS		3
GSEN 5385	ANALYTICAL & DIGITAL PHOTOGRAM ENGR		3
GSEN 5386	PROB IN REMOTE SENSING OF ENVIRONMNT		3
GSEN 5387	GEOSPATIAL INTELLIGENCE TECHNIQUES		3
GSEN 5388	GEOSPATIAL INTERNET ENGINEERING		3
GSEN 5390	ADVANCED TOPICS		3
GSEN 5396	DIRECTED INDEPENDENT STUDY		3

**GRADUATE THESIS OR PROJECT:**

GSEN 5395	GRAD PROJECT RESEARCH & PROPOSAL (Needs Permission of Faculty Advisor)		3
GSEN 5993	GRADUATE CREATIVE PROJECT		3
	<b>OR</b>		
GSEN 5998	GRADUATE THESIS		9

**V. UNIVERSITY REQUIREMENTS**

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

**TOTALS FOR COMBINED B.S./M.S. DEGREE PLAN**

TOTAL HOURS (MIN 149):	_____
TOTAL UPPER DIV UNDERGRAD HRS (MIN 45 CAN INCL GRAD HRS)	_____
TOTAL GRADUATE HOURS (MIN 36)	_____