

## MY DEGREE MAP

## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN GEOGRAPHIC INFORMATION SCIENCES MAJOR PROGRAM YEAR 2020-21

15T SEMESTER	1 <sup>ST</sup> YEAR								
TROY 1101	1ST SEAMESTED	HOURS		HOURS	SHAAAED				
ENG 1101/03					SOMMER				
MTH 1114   3   STAT 2210   3   COMPLETED FROM PREVIOUS FLERNS ON STATE 231   3   COMPLETED FROM PREVIOUS FLERNS ON STATE 233/LAB   3/1   FREE ELEC   3   FREE ELEC   5   FREE ELEC									
S 2241   3									
SCI 2233/LAB									
TOTAL   14									
AREA   I   I   I   I   I   I   I   I   I					COURSES TO BE RETAKEN				
SEMESTER	IOIAL	14		16	Coolers to be remain				
AREA II LIT COURSE 3 GEO 3301 3 GEO 3300 3 SS 3375 3 GIS 3301 3 FREE ELEC 3 COURSE 1 HUM/FA 3 COURSE FREE ELEC 2 AREA III SCI/LAB COURSE TOTAL 14 TOTAL 16  STH SEMESTER HOURS 6TH SEMESTER HOURS SUMMER HOURS GIS 3390 3 GIS 3391 3 GIS 4499 3 GIS 3310 3 GIS 3391 3 GIS 4499 3 GIS 3310 3 GIS 3305 3 (IF GIS 4490 IS NOT TAKEN ATH YEAR)  TOTAL 15 TOTAL 15 TOTAL 3  AREA IV SS COURSE 3 GIS 4405 3 GIS 4401 3 AREA IV SS COURSE 3 MINOR COURSE 3 MINOR COURSE 3 MINOR COURSE 3 GIS 4490 IS GIS 4400 IS NOT TAKEN ATH YEAR  MINOR COURSE 3 GIS 4401 3 SELECT COURSES THAT HAVE NOT BEEN COMPREY HOURS SEMESTER HOURS GIS 4405 3 GIS 4401 3 SELECT COURSE THAT HAVE NOT BEEN COMPREY HOURS SUMMER HOURS GIS 4405 3 GIS 4401 3 SELECT COURSES THAT HAVE NOT BEEN COMPREY HOURS GIS 4405 3 GIS 4401 3 SELECT COURSES THAT HAVE NOT BEEN COMPREY HOURS GIS 4420 3 GIS 4401 3 SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN  MINOR COURSE 3 AREA IV SS COURSE 3 PREREQUISITE COURSES OR COURSES TO BE RETAKEN  MINOR COURSE 3 AREA IV SS COURSE 3 PREREQUISITE COURSES OR COURSES TO BE RETAKEN  MINOR COURSE 3 MINOR COURSE 3 PREREQUISITE COURSES OR COURSES TO BE RETAKEN									
SELECT COURSES THAT					SOMMER				
STEP									
CS 3310									
COURSE				3					
TOTAL   14	C3 3310	3		3					
TOTAL   14	FREE ELEC	2		3/1					
STH SEMESTER									
STH SEMESTER	TOTAL	14		16					
GIS 3390 3 GIS 3391 3 GIS 4499 3 GIS 3310 3 GIS 3305 3 (IF GIS 4490 IS NOT TAKEN 4TH YEAR)  AREA IV HIS									
GIS 3310   3	5 <sup>TH</sup> SEMESTER	HOURS	6 <sup>th</sup> SEMESTER	HOURS	SUMMER HOURS				
AREA IV HIS COURSE  AREA II FINE ARTS COURSE  MINOR COURSE  MINOR COURSE  3  MINOR COURSE  3  MINOR COURSE  3  TOTAL  15  TOTAL  15  TOTAL  15  TOTAL  3  ATH YEAR  7TH SEMESTER  HOURS  GIS 4405  GIS 4405  GIS 4420  AREA IV SS COURSE  3  GIS 4401  AREA IV SS COURSE  3  GIS 4490 (IF GIS 4499 NOT TAKEN)  MINOR COURSE  3  MINOR COURSE  4  TOTAL  15  TOTAL  15	GIS 3390	3	GIS 3391	3	GIS 4499 3				
COURSE  AREA II FINE ARTS COURSE  MINOR COURSE  3  MINOR COURSE  3  TOTAL  15  TOTAL  15  TOTAL  3  ATH YEAR  7TH SEMESTER  HOURS  GIS 4405  GIS 4420  AREA IV SS COURSE  3  GIS 4490  AREA IV SS COURSE  MINOR COURSE  3  GIS 4490 (IF GIS 4499 NOT TAKEN)  MINOR COURSE  3  TOTAL  15  TOTAL  15	GIS 3310		GIS 3305						
AREA II FINE ARTS COURSE  MINOR COURSE  3 MINOR COURSE  3 TOTAL  15 TOTAL  15 TOTAL  3  ATH YEAR  7TH SEMESTER  HOURS  GIS 4405  GIS 4405  GIS 4420  AREA IV SS COURSE  3 GIS 4490 (IF GIS 4499 NOT TAKEN)  MINOR COURSE  3 AREA IV SS COURSE  3 MINOR COURSE  3 TOTAL  3 SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREFICULUS TERMS OR SEMESTERS AS PREFICULUS TERMS OR COURSES TO BE RETAKEN  TOTAL  5 TOTAL  15 TOTAL  3 TOTAL  3 COURSES TO BE RETAKEN	AREA IV HIS	3	AREA IV SS COURSE	3	TAKEN 4 <sup>TH</sup> YEAR)				
MINOR COURSE  TOTAL  TO									
MINOR COURSE 3 MINOR COURSE 3  TOTAL 15 TOTAL 15 TOTAL 3   ## YEAR    Total		3	MINOR COURSE	3					
TOTAL 15 TOTAL 15 TOTAL 3  4 <sup>TH</sup> YEAR  7 <sup>TH</sup> SEMESTER HOURS 8 <sup>TH</sup> SEMESTER HOURS SUMMER  GIS 4405 3 GIS 4415 3  GIS 4420 3 GIS 4401 3  AREA IV SS COURSE 3 GIS 4490 (IF GIS 4499 NOT TAKEN)  MINOR COURSE 3 AREA IV SS COURSE 3  MINOR COURSE 3 MINOR COURSE 3  SUBMIT GRADUATION APPLICATION TOTAL 15  TOTAL 15 TOTAL 15		2	MINIOD COLIDER	2					
TOTAL 15  ATH YEAR  4TH YEAR  5UMMER  5ELECT COURSES THAT HAVE NOT BEEN  COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN					TOTAL 2				
TOTAL 15  GIS 4405  GIS 4405  GIS 4405  GIS 4400  GIS 4400  GIS 4401  3  GIS 4401  3  GIS 4401  3  SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN	IOIAL	13		13	IOIAL 3				
GIS 4405  GIS 4420  AREA IV SS COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  TOTAL  TOTAL  TOTAL  MINOR COURSE  TOTAL  MINOR COURSE  MINOR COURSE  TOTAL  MINOR COURSE  MINOR COURSE  TOTAL  MINOR COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  TOTAL  MINOR COURSE  MINOR COURSE	7TH CEMICTED	HOURS		HOURS	CHAAAAED				
GIS 4420  AREA IV SS COURSE  GIS 4490 (IF GIS 4499 NOT TAKEN)  MINOR COURSE  AREA IV SS COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  MINOR COURSE  TOTAL  TOTAL  MINOR COURSE  TOTAL  SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREFEQUISITE COURSES OR COURSES TO BE RETAKEN  TOTAL  TOTAL  SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREFEQUISITE COURSES OR COURSES TO BE RETAKEN					SUMMER				
AREA IV SS COURSE  3 GIS 4490 (IF GIS 4499 NOT TAKEN)  MINOR COURSE  3 AREA IV SS COURSE  3 MINOR COURSE  3 MINOR COURSE  3 MINOR COURSE  3 MINOR COURSE  3 TOTAL  15 TOTAL  15									
MINOR COURSE 3 AREA IV SS COURSE 3 MINOR COURSE 3 MINOR COURSE 3 SUBMIT GRADUATION APPLICATION TOTAL 15 TOTAL 15									
MINOR COURSE 3 AREA IV SS COURSE 3 MINOR COURSE 3 MINOR COURSE 3 SUBMIT GRADUATION APPLICATION TOTAL 15 TOTAL 15	AKEA IV 33 COUKSE	3		3	PREVIOUS TERMS OR				
MINOR COURSE 3 MINOR COURSE 3 COURSES TO BE RETAKEN  SUBMIT GRADUATION APPLICATION TOTAL 15 TOTAL 15	MINOR COURSE		AREA IV SS COURSE						
SUBMIT GRADUATION APPLICATION TOTAL 15 TOTAL 15	MINOR COURSE	3	MINOR COURSE	3					
TOTAL 15 TOTAL 15		ON							
TOTAL PROGRAM   120		15	TOTAL	15					



## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN GEOGRAPHIC INFORMATION SCIENCES MAJOR PROGRAM YEAR 2020-21

COMPLETE ALL REQUIREMENTS	(58 HOURS)				
AREA I					
TAKE THE FOLLOWING COURSES: ENG 1101 COMP AND MODERN ENGLISH I ENG 1102 COMP AND MODERN ENGLISH II MINIMUM GRADE OF "C" REQ	3 HOURS 3 HOURS				
AREA II					
TAKE ANY 1000 2000 LEVEL COURSE IN LITERATURE	3 HOURS				
TAKE ANY 1000 2000 LEVEL COURSE WITH AN EXPANDED HISTORICAL AND CULTURAL SCOPE IN FINE ARTS, INCLUDING THE DISCIPLINES OF ART, MUSIC, THEATRE, FILM, OR OTHER FINE ARTS AREA.					
TAKE COM 2241 FUNDAMENTALS OF SPEECH TAKE ANY 1000 2000 LEVEL COURSES WITH AN EXPANDED HISTORICAL AND CULTURAL SCOPE IN THE HUMANITIES/FINE ARTS DISCIPLINES, INCLUDING ENGLISH, FOREIGN LANGUAGES, RELIGION, PHILOSOPHY, CLASSICS, THEATRE, MUSIC, DANCE, COMMUNICATION, SIGN LANGUAGE, INTERDISCIPLINARY STUDIES, OR OTHER HUMANITIES/ FINE ARTS AREAS.					
NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQ. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.					
AREA III					
TAKE MTH 1114 PRE-CALCULUS TRIGONOMETRY MINIMUM GRADE OF "C" REQ					
TAKE SCI 2233/L233 PHYSICAL SCIENCE AND LAB TAKE ANY 1000-2000 LEVEL SCIENCE CLASSES (CLASS AND CORRESPONDING LAB) FROM THE FOLLOWING SCIENCE DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICS, PHYSICAL SCIENCE, OR OTHER SCIENCE AREAS. SELECT 2: BIO 1100/L100, BIO 1101/L101, BIO 2229/L229, CHM 1115/L115, CHM 1142/L142, CHM 1143/L143, CHM 2242/L242, PHY 2252/L252, PHY 2253/L253, PHY 2262/L262, PHY 2263/L263, SCI 1110/L110, SCI 2234/L234, SCI 2240/L240.					
AREA IV					
TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY					
TAKE THREE 1000-2000 LEVEL COURSE FROM THE FOLLOWING SOCIAL SCIENCE DISCIPLINES: ANTHROPOLOGY, BUSINESS, CRIMINAL JUSTICE, ECONOMICS, GEOGRAPHY, HISTORY, HUMAN SERVICES, LEADERSHIP, INTERDISCIPLINARY STUDIES, NURSING, POLITICAL SCIENCE, PSYCHOLOGY, RELIGION, SOCIAL WORK, SOCIOLOGY, OR OTHER SOCIAL SCIENCE AREAS.					
NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQ. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.					
AREA V					
IS 2241 COMPUTER CONCEPTS AND APPLICATIONS STAT 2210 INTRODUCTORY STATISTICS BIO 1120/L120 SURVEY OF ENVIRONMENTAL SCIENCE/LAB CS 3310 FOUNDATIONS OF COMPUTER SCIENCE SS 3375 RESEARCH METHODS IN THE SOCIAL SCIENCES TROY 1101 THE UNIVERSITY EXPERIENCE	3 HOURS 3 HOURS 3/1 HOURS 3 HOURS 1 HOUR				

EVERY REASONABLE ATTEMPT TO ENSURE ACCURACY HAS BEEN MADE. SOME COURSES (SUCH AS DEVELOPMENTAL OR PRE-REQUISITE COURSES) ARE NOT REFLECTED IN THIS DEGREE MAP. COMPLETION OF DEGREE REQUIREMENTS IS BASED ON THE SPECIFIC CATALOG YEAR FOR EACH STUDENT.A MINIMUM OF 120 HOURS IS REQUIRED FOR ALL BACCALAUREATE DEGREE PROGRAMS.AT LEAST 25% OF THE CREDIT HOURS REQUIRED FOR THE DEGREE MUST BE COMPLETED IN RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMESTER HOURS OF RESIDENCY MUST BE COMPLETED IN EACH MAJOR FIELD(S) OF STUDY.A MINIMUM GPA OF 2.0 OVERALL AND IN THE MAJOR IS REQUIRED TO GRADUATE.NOTE: PLEASE CONSULT THE COLLEGE OF ARTS AND SCIENCES OR CURRENT CATALOG FOR OTHER REQUIREMENTS NOT COVERED IN THIS DOCUMENT.NOTES: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. PLEASE CONSIDER THIS REQUIREMENT. WHEN SELECTING COURSEWORK IN AREAS II OR IV.



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GEOGRAPHIC INFORMATION SCIENCES 2.0 GPA REQUIRED			(36 HOURS)	
GE GE GI! GI! GI! GI! GI! GI!	O 3301 S 3301 S 3305 S 3305 S 3310 S 3390 S 3391 S 4401 S 4405 S 4415 S 4420	PRINCIPLES OF PHYSICAL GEOGRAPHY PRINCIPLES OF CULTURAL GEOGRAPHY CARTOGRAPHY & GEOVISUALIZATION SPATIAL INFORMATION & ANALYSIS INTRODUCTION TO REMOTE SENSING FUNDAMENTALS OF GEOGRAPHIC INFORMATION & ANALYSIS APPLICATION OF GEOSPATIAL INFORMATION SCIENCE SPATIAL DATABASE DESIGN & MANAGEMENT SPATIAL MODELING & PROGRAMMING ADVANCED GEOSPATIAL TECHNOLOGIES WEB BASED GIS/SPATIAL DATA APPLICATIONS GIS INTERNSHIP OR GIS 4490 GIS SENIOR PROJECT	3 HOURS	
MINOR	1		(18 HOURS)	
AT LEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED TO COMPLETE THIS DEGREE PROGRAM. ADDITIONAL MAJORS ARE ACCEPTABLE.				
FREE ELECTIVES REQUIREMENT		(8 HOURS)		
TAKE 8 SEMESTER HOURS OF FREE ELECTIVE CREDIT			8 HOURS	