

**MY DEGREE MAP**  
**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN**  
**GEOGRAPHIC INFORMATION SCIENCES MAJOR**  
**PROGRAM YEAR 2023-24**

1 <sup>ST</sup> YEAR					
1 <sup>ST</sup> SEMESTER	HOURS	2 <sup>ND</sup> SEMESTER	HOURS	SUMMER	
TROY 1101	1	ENG 1102/04	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN	
ENG 1101/03	3	BIO 1120/LAB	3/1		
MTH 1114	3	STAT 2210	3		
IS 2241	3	COM 2241	3		
SCI 2233/LAB	3/1	FREE ELEC	3		
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>16</b>		
2 <sup>ND</sup> YEAR					
3 <sup>RD</sup> SEMESTER	HOURS	4 <sup>TH</sup> SEMESTER	HOURS	SUMMER	
AREA II LIT COURSE	3	AREA IV SS COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN	
GEO 3300	3	SS 3375	3		
GIS 3301	3	GEO 3301	3		
CS 3310	3	AREA II HUM/FA COURSE	3		
FREE ELEC	2	AREA II SCI/LAB COURSE	3/1		
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>16</b>		
3 <sup>RD</sup> YEAR					
5 <sup>TH</sup> SEMESTER	HOURS	6 <sup>TH</sup> SEMESTER	HOURS	SUMMER	HOURS
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 COURSE	3	AREA IV SS COURSE	3		
AREA II FINE ARTS COURSE	3	MINOR COURSE	3		
MINOR COURSE	3	MINOR COURSE	3		
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>3</b>
4 <sup>TH</sup> YEAR					
7 <sup>TH</sup> SEMESTER	HOURS	8 <sup>TH</sup> SEMESTER	HOURS	SUMMER	
GIS 4405	3	GIS 4415	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN	
GIS 4420	3	GIS 4401	3		
AREA IV SS COURSE	3	GIS 4490 (IF GIS 4499 NOT TAKEN)	3		
MINOR COURSE	3	FREE ELEC	3		
MINOR COURSE	3	MINOR COURSE	3		
<b>SUBMIT GRADUATION APPLICATION</b>					
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>		
			<b>TOTAL PROGRAM</b>	<b>120</b>	



**COMPLETE ALL REQUIREMENTS**

**(58 HOURS)**

**AREA I**

TAKE THE FOLLOWING COURSES:

ENG 1101	COMP AND MODERN ENGLISH I	3 HOURS
ENG 1102	COMP AND MODERN ENGLISH II	3 HOURS
MINIMUM GRADE OF "C" REQ.		

**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. 3 HOURS

TAKE COM 2241 FUNDAMENTALS OF SPEECH 3 HOURS  
TAKE ANY 1000 2000 LEVEL COURSES WITH AN EXPANDED 3 HOURS

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 3 HOURS  
MINIMUM GRADE OF "C" REQ.

TAKE SCI 2233/L233 PHYSICAL SCIENCE AND LAB 3/1 HOURS  
TAKE ANY 1000-2000 LEVEL SCIENCE CLASSES (CLASS 4 HOURS

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 2234/L234, SCI 2240/L240.

**AREA IV**

TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY 3 HOURS

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. 9 HOURS

**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	3 HOURS
STAT 2210	INTRODUCTORY STATISTICS	3 HOURS
BIO 1120/L120	SURVEY OF ENVIRONMENTAL SCIENCE/LAB	3/1 HOURS
CS 3310	FOUNDATIONS OF COMPUTER SCIENCE	3 HOURS
SS 3375	RESEARCH METHODS IN THE SOCIAL SCIENCES	3 HOURS
TROY 1101	THE UNIVERSITY EXPERIENCE	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.



**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
GEOGRAPHIC INFORMATION SCIENCES MAJOR  
PROGRAM YEAR 2023-24**

**GEOGRAPHIC INFORMATION SCIENCES  
2.0 GPA REQUIRED**

**(36 HOURS)**

GEO	3300	PRINCIPLES OF PHYSICAL GEOGRAPHY	3 HOURS
GEO	3301	PRINCIPLES OF CULTURAL GEOGRAPHY	3 HOURS
GIS	3301	CARTOGRAPHY & GEOVISUALIZATION	3 HOURS
GIS	3305	SPATIAL INFORMATION & ANALYSIS	3 HOURS
GIS	3310	INTRODUCTION TO REMOTE SENSING	3 HOURS
GIS	3390	FUNDAMENTALS OF GEOGRAPHIC INFORMATION & ANALYSIS	3 HOURS
GIS	3391	APPLICATION OF GEOSPATIAL INFORMATION SCIENCE	3 HOURS
GIS	4401	SPATIAL DATABASE DESIGN & MANAGEMENT	3 HOURS
GIS	4405	SPATIAL MODELING & PROGRAMMING	3 HOURS
GIS	4415	ADVANCED GEOSPATIAL TECHNOLOGIES	3 HOURS
GIS	4420	WEB BASED GIS/SPATIAL DATA APPLICATIONS	3 HOURS
GIS	4499	GIS INTERNSHIP OR GIS 4490 GIS SENIOR PROJECT	3 HOURS

**MINOR**

**(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