

**MY DEGREE MAP  
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
SURVEYING AND GEOMATICS SCIENCES PROGRAM  
PROGRAM YEAR 2017-18**

1 <sup>ST</sup> YEAR					
FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS	SUMMER SEMESTER	HOURS
TROY 1101	1	IS 2241	3	PHY 2252/LAB	3/1
ENG 1101/03	3	MTH 1126	4	ART 2201	3
MTH 1125	4	MTH 2210	3		
AREA IV SS COURSE	3	ENG 1102/04	3		
GEM 1100	2	GEM 1101	2		
<b>TOTAL</b>	<b>13</b>	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>7</b>
2 <sup>ND</sup> YEAR					
FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS	SUMMER SEMESTER	HOURS
GEM 2220/L220	3/1	GEM 3330/L330	3/1	GEM 3395 CO-OP I DR (IF GEM 4499 WILL NOT BE TAKEN 4 <sup>TH</sup> YEAR)	1
GEM 3390	3	GEM 3391	3		
PHY 2253/LAB	3/1	GEM 4408	3		
FREE ELEC	2	CS 2250	3		
<b>TOTAL</b>	<b>13</b>	<b>TOTAL</b>	<b>13</b>	<b>TOTAL</b>	<b>1</b>
3 <sup>RD</sup> YEAR					
FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS	SUMMER SEMESTER	HOURS
GEM 3379	3	GEM 4410	3	GEM 4496 CO-OP II DR (IF GEM 4499 WILL NOT BE TAKEN 4 <sup>TH</sup> YEAR)	1
GEM 3309/L309	3/1	GEM 4405/L405	3/1		
AREA II FINE ARTS COURSE	3	GEM 3310/L310	3/1		
AREA II LIT COURSE	3	AREA II HUM/FA COURSE (COM 2241 DR)	3		
FREE ELEC	2	FREE ELEC	1		
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>1</b>
4 <sup>TH</sup> YEAR					
FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS	SUMMER	HOURS
GEM 4409/L409	3/1	GEM 4407/L407	3/1	SELECT COURSES THAT HAVE NOT BEEN COMPLETED	
GEM 3366	3	GEM 4499 (IF CO-OPS TOTALING 2 CREDIT HOURS NOT TAKEN)	2		
AREA IV SS COURSE	3	GEM 4490	1		
FREE ELEC	1	AREA IV SS COURSE	3		
FREE ELEC	3	AREA IV HIS COURSE	3		
		FREE ELEC	2		
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>15</b>		



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COMPLETE ALL REQUIREMENTS (56 HOURS)

AREA I

MINIMUM GRADE OF "C" REQUIRED

ENG 1101	COMP AND MODERN ENGLISH I	3 HOURS
ENG 1102	COMP AND MODERN ENGLISH II	3 HOURS

AREA II

TAKE ANY 1000-2000 LEVEL COURSE IN LITERATURE 3 HOURS

TAKE ART 2201 INTRODUCTORY DRAWING 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 ONE 1000-2000 LEVEL COURSE 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. 3 HOURS

NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.

AREA III

MTH 1125	CALCULUS I	4 HOURS
MINIMUM GRADE OF "C" REQUIRED		

TAKE A PHYSICS COURSE/LAB SEQUENCE:

PHY 2252/L252 GENERAL PHYSICS I & PHY 2253/L253 GENERAL PHYSICS II	8 HOURS
OR	

PHY 2262/L262 PHYSICS I WITH CALCULUS & PHY 2263/L263 PHYSICS II WITH CALCULUS

AREA IV

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

TAKE ANY THREE 1000-2000 LEVEL COURSES 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 REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.

AREA V

TAKE THE FOLLOWING COURSES:

TROY 1101	UNIVERSITY ORIENTATION	1 HOUR
IS 2241	COMPUTER CONCEPTS AND APPLICATIONS	3 HOURS
CS 2250	COMPUTER SCIENCE I	3 HOURS
MTH 2210	APPLIED STATISTICS	3 HOURS
MTH 1126	CALCULUS II	4 HOURS

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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**SURVEYING AND GEOMATICS SCIENCE PROGRAM (51 HOURS)  
2.0 GPA REQUIRED**

TAKE THE FOLLOWING COURSES:

GEM 1100	COMPUTER-AIDED DRAFTING I	2 HOURS
GEM 1101	COMPUTER-AIDED DRAFTING II	2 HOURS
GEM 2220/L220	BASICS CARTOGRAPHY/SURVEYING/LAB	3/1 HOURS
GEM 3309/L309	LAND PARCEL ADMINISTRATION & LAW	3/1 HOURS
GEM 3310/L310	LAND SURVEY PRACTICE/LAB	3/1 HOURS
GEM 3330/L330	ADVANCED MEASUREMENT ANALYSIS/LAB	3/1 HOURS
GEM 3366	PHOTOGRAMMETRY & REMOTE SENSING	3 HOURS
GEM 3379	INTRODUCTION TO LEAST SQUARES ADJUSTMENT	3 HOURS
GEM 3390	FUNDAMENTALS OF GEOGRAPHIC INFORMATION AND ANALYSIS	3 HOURS
GEM 3391	APPLICATION OF GIS	3 HOURS
GEM 4405/L405	ROUTE & CONSTRUCTION SURVEYING/LAB	3/1 HOURS
GEM 4407/L407	LAND DEVELOPMENT/LAB	3/1 HOURS
GEM 4408	GEODESY & GEODETICS	3 HOURS
GEM 4409/L409	HYDROLOGY/LAB	3/1 HOURS
GEM 4410	INTRODUCTION GLOBAL POSITIONS	3 HOURS
GEM 4490	GEOMATICS CAPSTONE	1 HOUR

TAKE AN ADDITIONAL 2 HOURS FROM THE FOLLOWING:

GEM 4499 (2), OR GEM 3395 (1) AND GEM 4496 (1) 2 HOURS

**FREE ELECTIVES REQUIREMENT (11 HOURS)**

TAKE 11 SEMESTER HOURS OF FREE ELECTIVE CREDIT. 11 HOURS