

MY DEGREE MAP
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
SURVEYING AND GEOMATICS SCIENCES PROGRAM
PROGRAM YEAR 2023-24

| 1ST YEAR | | | | | |
|--|-----------|--|-----------|---|------------|
| FALL SEMESTER | HRS | SPRING SEMESTER | HRS | SUMMER SEMESTER | HRS |
| TROY 1101 | 1 | FREE ELEC | 2 | | |
| ENG 1101/03 | 3 | MTH 2230 | 3 | | |
| MTH 1125 | 4 | STAT 2210 | 3 | | |
| IS 2241 | 3 | ENG 1102/04 | 3 | | |
| PHY 2252/L252 | 3/1 | PHY 2253/L253 | 3/1 | | |
| TOTAL | 15 | TOTAL | 15 | | |
| 2ND YEAR | | | | | |
| FALL SEMESTER | HRS | SPRING SEMESTER | HRS | SUMMER SEMESTER | HRS |
| GEM 2220/L220 | 3/1 | GEM 3330/L330 | 3/1 | GEM 3395 CO-OP I DR (IF GEM 4499 WILL NOT BE TAKEN 4TH YEAR) | 1 |
| GIS 3390 | 3 | GIS 3391 | 3 | | |
| CS 2250 | 3 | GEM 4408 | 3 | | |
| GEM 1100 | 2 | GEM 1101 | 2 | | |
| ART 2201 | 3 | AREA IV SS COURSE | 3 | | |
| TOTAL | 15 | TOTAL | 15 | TOTAL | 1 |
| 3RD YEAR | | | | | |
| FALL SEMESTER | HRS | SPRING SEMESTER | HRS | SUMMER SEMESTER | HRS |
| GEM 3379 | 3 | AREA II FINE ARTS COURSE | 3 | GEM 4496 CO-OP II DR (IF GEM 4499 WILL NOT BE TAKEN 4TH YEAR) | 1 |
| GEM 3309/L309 | 3/1 | GEM 4405/L405 | 3/1 | | |
| GEM 4410 | 3 | GEM 3310/L310 | 3/1 | | |
| GEM 3366 | 3 | AREA II HUM/FA COURSE (COM 2241 DR) | 3 | | |
| FREE ELEC | 2 | FREE ELEC | 1 | | |
| TOTAL | 15 | TOTAL | 15 | TOTAL | 1 |
| 4TH YEAR | | | | | |
| FALL SEMESTER | HRS | SPRING SEMESTER | HRS | SUMMER SEMESTER | HRS |
| GEM 4409/L409 | 3/1 | GEM 4407/L407 | 3/1 | SELECT COURSES THAT HAVE NOT BEEN COMPLETED | |
| AREA II LIT COURSE | 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 | 3 | | |
| TOTAL | 14 | TOTAL | 16 | | |
| SUBMIT YOUR GRADUATION APPLICATION GREE | | | | MINIMUM HOURS REQUIRED FOR DEGREE | |
| | | | | | 120 |

COMPLETE ALL REQUIREMENTS

(55 HOURS)

DR DENOTES A DEPARTMENTAL RECOMMENDED COURSE

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:

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|-----------|------------------------------------|---------|
| TROY 1101 | THE UNIVERSITY EXPERIENCE | 1 HOUR |
| IS 2241 | COMPUTER CONCEPTS AND APPLICATIONS | 3 HOURS |
| CS 2250 | COMPUTER SCIENCE I | 3 HOURS |
| STAT 2210 | INTRODUCTORY STATISTICS | 3 HOURS |
| MTH 2230 | APPLIED LINEAR ALGEBRA | 3 HOURS |

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PROGRAM YEAR 2023-24**

**SURVEYING AND GEOMATICS SCIENCE PROGRAM
2.0 GPA REQUIRED**

(53 HOURS)

TAKE THE FOLLOWING COURSES:

| | | |
|---------------|---|-----------|
| GEM 1100 | COMPUTER-AIDED DRAFTING I | 2 HOURS |
| GEM 1101 | COMPUTER-AIDED DRAFTING II | 2 HOURS |
| GEM 2220/L220 | BASICS OF SURVEYING/LAB | 3/1 HOURS |
| GEM 3309/L309 | LAND SURVEY PRINCIPLES/LAB | 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 |
| GIS 3390 | FUNDAMENTALS OF GEOGRAPHIC INFORMATION AND ANALYSIS | 3 HOURS |
| GIS 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:

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| GEM 4499 (2), OR GEM 3395 (1) AND GEM 4496 (1) | 2 HOURS |
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FREE ELECTIVES REQUIREMENT

(12 HOURS)

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| TAKE 12 SEMESTER HOURS OF FREE ELECTIVE CREDIT. | 12 HOURS |
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