

MY DEGREE MAP  
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
MATHEMATICS MAJOR—OPTION 1(MATHEMATICAL STATISTICS SEQUENCE)  
PROGRAM YEAR 2019-2020

| 1 <sup>ST</sup> YEAR    | TERM 1                   |                         | TERM 2                 |                        | TERM 3            |                   | TERM 4       |                       | TERM 5             |       |   |
|-------------------------|--------------------------|-------------------------|------------------------|------------------------|-------------------|-------------------|--------------|-----------------------|--------------------|-------|---|
|                         | AREA II FINE ARTS COURSE | 3                       | AREA IV SS COURSE      | 3                      | ENG 1102/04       | 3                 | MTH 2227     | 4                     | AREA IV HIS COURSE | 3     |   |
| ENG 1101/03             | 3                        | MTH 1125                | 4                      | MTH 1126               | 4                 | MTH 3318          | 3            |                       |                    |       |   |
| TROY 1101               | 1                        |                         |                        |                        |                   |                   |              |                       |                    |       |   |
| TOTAL                   | 7                        | TOTAL                   | 7                      | TOTAL                  | 7                 | TOTAL             | 7            | TOTAL                 | 7                  | TOTAL | 3 |
| 2 <sup>ND</sup> YEAR    | TERM 1                   |                         | TERM 2                 |                        | TERM 3            |                   | TERM 4       |                       | TERM 5             |       |   |
|                         | MTH 3311                 | 3                       | APPROVED MTH/STAT ELEC | 3                      | AREA IV SS COURSE | 3                 | FREE ELEC    | 3                     | MTH 2220           | 3     |   |
| AREA II HUM/FA COURSE   | 3                        | AREA II LIT COURSE      | 3                      | STAT 2210              | 3                 | AREA IV SS COURSE | 3            | AREA II HUM/FA COURSE | 3                  |       |   |
|                         |                          |                         |                        |                        |                   |                   |              |                       |                    |       |   |
| TOTAL                   | 6                        | TOTAL                   | 6                      | TOTAL                  | 6                 | TOTAL             | 6            | TOTAL                 | 6                  | TOTAL | 6 |
| 3 <sup>RD</sup> YEAR    | TERM 1                   |                         | TERM 2                 |                        | TERM 3            |                   | TERM 4       |                       | TERM 5             |       |   |
|                         | MTH 3331                 | 3                       | FREE ELEC              | 3                      | STAT 3350         | 3                 | STAT 4451    | 3                     | FREE ELEC          | 3     |   |
| AREA III SCI/LAB COURSE | 3/1                      | AREA III SCI/LAB COURSE | 3/1                    | APPROVED MTH/STAT ELEC | 3                 | MINOR COURSE      | 3            | FREE ELEC             | 3                  |       |   |
|                         |                          |                         |                        |                        |                   |                   |              |                       |                    |       |   |
| TOTAL                   | 7                        | TOTAL                   | 7                      | TOTAL                  | 6                 | TOTAL             | 6            | TOTAL                 | 6                  | TOTAL | 6 |
| 4 <sup>TH</sup> YEAR    | TERM 1                   |                         | TERM 2                 |                        | TERM 3            |                   | TERM 4       |                       | TERM 5             |       |   |
|                         | APPROVED MTH/STAT ELEC   | 3                       | MTH 4441               | 3                      | MTH 4424          | 3                 | MINOR COURSE | 3                     |                    |       |   |
| FREE ELEC               | 3                        | MINOR COURSE            | 3                      | MINOR COURSE           | 3                 | MINOR COURSE      | 3            |                       |                    |       |   |
| MINOR COURSE            | 3                        |                         |                        |                        |                   |                   |              |                       |                    |       |   |
|                         |                          |                         |                        |                        |                   |                   |              |                       |                    |       |   |
| TOTAL                   | 9                        | TOTAL                   | 6                      | TOTAL                  | 6                 | TOTAL             | 6            | TOTAL                 | 6                  |       |   |

SUBMIT GRADUATION APPLICATION

TOTAL PROGRAM 123





**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
 MATHEMATICS MAJOR—OPTION 1(MATHEMATICAL STATISTICS SEQUENCE)  
 PROGRAM YEAR 2019-2020**

COMPLETE ALL REQUIREMENTS (49 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 ANY TWO 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. | 6 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<br>MINIMUM GRADE OF "C" REQ  | 4 HOURS |
| TAKE ANY TWO 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 1120/L120, 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 2233/L233, SCI 2234/L234, SCI 2240/L240. | 8 HOURS |

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 REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.

AREA V

|           |                                      |         |
|-----------|--------------------------------------|---------|
| TROY 1101 | UNIVERSITY ORIENTATION               | 1 HOUR  |
| STAT 2210 | INTRODUCTORY STATISTICS              | 3 HOURS |
| MTH 2220  | COMPUTER PROGRAMMING FOR MATHEMATICS | 3 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.





**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
MATHEMATICS MAJOR—OPTION 1 (MATHEMATICAL STATISTICS SEQUENCE)  
PROGRAM YEAR 2019-2020**

**MATHEMATICS MAJOR: OPTION 1 (MATHEMATICAL STATISTICS SEQUENCE) (38 HOURS)**

MINIMUM 2.00 OVERALL GPA REQUIRED  
TAKE THE FOLLOWING COURSES:

(MINIMUM GRADE OF 'C' REQUIRED)

|           |                                      |         |
|-----------|--------------------------------------|---------|
| MTH 1126  | CALCULUS II                          | 4 HOURS |
| MTH 2227  | CALCULUS III                         | 4 HOURS |
| MTH 3311  | DIFFERENTIAL EQUATIONS               | 3 HOURS |
| MTH 3318  | INTRO TO ADVANCED MATHEMATICS        | 3 HOURS |
| MTH 3331  | LINEAR ALGEBRA                       | 3 HOURS |
| MTH 4424  | REAL ANALYSIS I                      | 3 HOURS |
| MTH 4441  | ABSTRACT ALGEBRA I                   | 3 HOURS |
| STAT 3350 | STATISTICAL METHODS AND COMPUTATIONS | 3 HOURS |
| STAT 4451 | MATHEMATICAL STATISTICS I            | 3 HOURS |

SELECT 9 ADDITIONAL HOURS OF UPPER-LEVEL MATHEMATICS OR STATISTICS COURSES  
EXCLUDING MTH 4481  
(MINIMUM GRADE OF 'C' REQUIRED) 9 HOURS

**MINOR (18 HOURS)**

AT LEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED COMPLETE THIS  
DEGREE PROGRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE. 18 HOURS

**FREE ELECTIVES REQUIREMENT (15 HOURS)**

TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT. 15 HOURS