TROY UNIVERSITY ™

MY DEGREE MAP
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
MATHEMATICS MAJOR—OPTION 2 (STATISTICS CONCENTRATION)
PROGRAM YEAR 2022-23

1ST YEAR			
1ST SEMESTER	**HRS**	**2ND SEMESTER**	**HRS**
TROY 1101	1	ENG 1102/04	3
ENG 1101/03	3	AREA II HUM/FA COURSE	3
MTH 1125	4	AREA IV SS COURSE	3
AREA II FINE ARTS COURSE	3	STAT 2210	3
AREA IV SS COURSE	3	MTH 1126	4
TOTAL	**14**	**TOTAL**	**16**
2ND YEAR			
3RD SEMESTER	**HRS**	**4TH SEMESTER**	**HRS**
AREA II LIT COURSE	3	MTH 2220	3
MTH 3318	3	REQ MTH COURSE	3
MTH 2227	4	MINOR COURSE	3
AREA IV HIS COURSE	3	AREA III SCI/LAB COURSE	3/1
FREE ELEC	3	STAT 3350	3
TOTAL	**16**	**TOTAL**	**16**
3RD YEAR			
5TH SEMESTER	**HRS**	**6TH SEMESTER**	**HRS**
REQ MTH COURSE	3	APPROVED STAT ELEC	3
STAT 4451	3	STAT 4452	3
AREA II HUM/FA COURSE	3	AREA IV SS COURSE	3
MINOR COURSE	3	MINOR COURSE	3
AREA III SCI/LAB COURSE	3/1	FREE ELEC	3
TOTAL	**16**	**TOTAL**	**15**
4TH YEAR			
7TH SEMESTER	**HRS**	**8TH SEMESTER**	**HRS**
MTH 4424	3	APPROVED STAT ELEC	3
MTH 4441	3	MINOR COURSE	3
MINOR COURSE	3	MINOR COURSE	3
FREE ELEC	3	FREE ELEC	3
FREE ELEC	3	MTH 4425	3
SUBMIT GRADUATION APPLICATION			
TOTAL	**15**	**TOTAL**	**15**
		TOTAL PROGRAM	**120**

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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   3 HOURS
AND CULTURAL SCOPE IN FINE ARTS, INCLUDING THE DISCIPLINES OF
ART, MUSIC, THEATRE, FILM, OR OTHER FINE ARTS AREA.

TAKE ANY TWO 1000 2000 LEVEL COURSES WITH AN EXPANDED   6 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 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" REQ

TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS   8 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 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.

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

AREA V

TROY	1101	THE UNIVERSITY EXPERIENCE	1 HOUR
STAT	2210	INTRODUCTORY STATISTICS	3 HOURS
MTH	2220	COMPUTER PROGRAMMING FOR MATHEMATICS	3 HOURS

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PROGRAM YEAR 2022-23

MATHEMATICS MAJOR: OPTION 2 (REAL ANALYSIS 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 & COMPUTATIONS	3 HOURS
STAT	4451	MATHEMATICAL STATISTICS I	3 HOURS
STAT	4452	MATHEMATICAL STATISTICS II	3 HOURS

TAKE SIX (6) HOURS OF UPPER-LEVEL STAT COURSES FROM THE FOLLOWING: 6 HOURS

STAT	3355	SURVEY SAMPLING	3 HOURS
STAT	4459	REGRESSION ANALYSIS	3 HOURS
STAT	4465	CATEGORICAL DATA ANALYSIS	3 HOURS
STAT	4466	DATA MINING	3 HOURS
STAT	4467	EXPERIMENTAL DESIGN	3 HOURS
STAT	4456	MATHEMATICS OF FINANCE	3 HOURS
STAT	4464	MULTIVARIATE ANALYSIS	3 HOURS

MINOR   (18 HOURS)

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

FREE ELECTIVES REQUIREMENT   (15 HOURS)

TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.   15 HOURS