

**MY DEGREE MAP
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
MATHEMATICS MAJOR—OPTION 2 (STATISTICS CONCENTRATION)
PROGRAM YEAR 2023-24**

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	MTH 3311	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
MTH 3331	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		
SUBMIT GRADUATION APPLICATION			
TOTAL	15	TOTAL	12
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 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	4 HOURS
MINIMUM GRADE OF "C" REQ		
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	THE UNIVERSITY EXPERIENCE	1 HOUR
STAT 2210	INTRODUCTORY STATISTICS	3 HOURS
MTH 2220	COMPUTER PROGRAMMING FOR MATHEMATICS	3 HOURS

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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:

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
DEGREE PROGRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE.

18 HOURS

FREE ELECTIVES REQUIREMENT

(15 HOURS)

TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.

15 HOURS