

### 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						
1 <sup>ST</sup> SEMESTER	HOURS	2 <sup>ND</sup> SEMESTER	HOURS			
TROY 1101	1	ENG 1102/04	3			
ENG 1101/03	3	AREA II HUM/FA COURSE				
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			
AUCENTY 33 COOKSE	3	W(111 1120	7			
TOTAL	14	TOTAL	16			
101712	2 <sup>ND</sup> Y		10			
3 <sup>rd</sup> SEMESTER	HOURS	4 <sup>TH</sup> SEMESTER	HOURS			
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	FREE ELEC	3			
AREA II HUM/FA COURSE	3	STAT 3350	3			
Charles and the contract of th						
TOTAL	16	TOTAL	15			
3 <sup>RD</sup> YEAR						
	_	Li ti c				
5 <sup>TH</sup> SEMESTER	HOURS	6 <sup>th</sup> SEMESTER	HOURS			
5 <sup>TH</sup> SEMESTER STAT 4451			3			
	HOURS	6 <sup>th</sup> Semester	3			
STAT 4451	3 3/1 3	6 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC	3			
STAT 4451 AREA III SCI/LAB COURSE	3 3/1	6 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC				
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE	3 3/1 3	6 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE	3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE	3 3/1 3 3	6 <sup>TH</sup> SEMESTER  APPROVED MTH/STAT ELEC  APPROVED MTH/STAT ELEC  AREA IV SS COURSE  MINOR COURSE  AREA III SCI/LAB COURSE	3 3 3 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE	HOURS 3 3/1 3 3 13	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE TOTAL	3 3 3 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL	HOURS 3 3/1 3 3 13 4 <sup>TH</sup> Y	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL	3 3 3 3 3/1			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL	13 4 <sup>TH</sup> Y	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL  EAR  8 <sup>TH</sup> SEMESTER	3 3 3 3/1 16 HOURS			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7 <sup>TH</sup> SEMESTER MTH 4424	HOURS  3 3/1 3 3 3  13 4 <sup>TH</sup> Y HOURS 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC	3 3 3 3/1 16 HOURS			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7TH SEMESTER MTH 4424 MTH 4441	13 4 <sup>TH</sup> Y HOURS 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL  EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC MINOR COURSE	3 3 3 3/1 16 HOURS 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7 <sup>TH</sup> SEMESTER MTH 4424 MTH 4441 MINOR COURSE	13 4 <sup>TH</sup> Y HOURS 3 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC MINOR COURSE MINOR COURSE	3 3 3 3/1 16 HOURS 3 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7TH SEMESTER MTH 4424 MTH 4441 MINOR COURSE FREE ELEC	13 4 <sup>TH</sup> Y HOURS 3 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL  EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC MINOR COURSE MINOR COURSE MINOR COURSE FREE ELEC	3 3 3 3/1 16 HOURS 3 3 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7TH SEMESTER MTH 4424 MTH 4441 MINOR COURSE FREE ELEC FREE ELEC	13 4 <sup>TH</sup> Y HOURS 3 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC MINOR COURSE MINOR COURSE	3 3 3 3/1 16 HOURS 3 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7TH SEMESTER MTH 4424 MTH 4441 MINOR COURSE FREE ELEC	13 4 <sup>TH</sup> Y HOURS 3 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL  EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC MINOR COURSE MINOR COURSE MINOR COURSE FREE ELEC	3 3 3 3/1 16 HOURS 3 3 3			
STAT 4451 AREA III SCI/LAB COURSE REQ MTH COURSE MINOR COURSE  TOTAL  7TH SEMESTER MTH 4424 MTH 4441 MINOR COURSE FREE ELEC FREE ELEC SUBMIT GRADUATION	13 4 <sup>TH</sup> Y HOURS 3 3	APPROVED MTH/STAT ELEC APPROVED MTH/STAT ELEC AREA IV SS COURSE MINOR COURSE AREA III SCI/LAB COURSE  TOTAL  EAR  8 <sup>TH</sup> SEMESTER APPROVED MTH/STAT ELEC MINOR COURSE MINOR COURSE MINOR COURSE FREE ELEC	3 3 3 3/1 16 HOURS 3 3 3			



## 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 ENG 1102 COMP AND MODERN ENGLISH II MINIMUM GRADE OF "C" REQ	3 HOURS 3 HOURS
AREA II	
TAKE ANY 1000 2000 LEVEL COURSE IN LITERATURE 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 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
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.

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.

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 STUDENTA 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 STATISITCS SEQUENCE)		
MINIMUM 2.00 OVERALL GPA REQUIRED TAKE THE FOLLOWING COURSES:		
(MINIMUM GRADE OF 'C' REQUIRED) MTH 1126 CALCULUS II MTH 2227 CALCULUS III MTH 3311 DIFFERENTIAL EQUATIONS MTH 3318 INTRO TO ADVANCED MATHEMATICS MTH 3331 LINEAR ALGEBRA MTH 4424 REAL ANALYSIS I MTH 4441 ABSTRACT ALGEBRA I STAT 3350 STATISTICAL METHODS AND COMPUTATIONS STAT 4451 MATHEMATICAL STATISTICS I	4 HOURS 4 HOURS 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	