

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR—OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2021-2022

	1ST YI	EAR	
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 Y	_	
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
MARKET TO THE PARTY OF THE PART		AREA II HUM/FA COURSE	3
TOTAL	40	TOTAL	46
TOTAL	13	TOTAL	16
	3RD Y	_	LIDC
STH SEMESTER REQ MTH COURSE	HRS 3	6TH SEMESTER APPROVED MTH ELEC	HRS 3
APPROVED MTH ELEC	3	APPROVED MTH ELEC	3
FREE ELEC	3	AREA IV SS COURSE	3
MINOR COURSE	3	MINOR COURSE	3
AREA III SCI/LAB COURSE	3/1	FREE ELEC	3
THER III SELLE ECONSE	3/1	TREE ELEC	3
TOTAL	16	TOTAL	15
	4TH Y		
7TH SEMESTER	HRS	8TH SEMESTER	HRS
MTH 4424	3	APPROVED MTH 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



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COMPLETE ALL REQUIREMENTS (49 HOURS) AREA I TAKE THE FOLLOWING COURSES: COMP AND MODERN ENGLISH I 3 HOURS ENG 1101 COMP AND MODERN ENGLISH II ENG 1102 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/

NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.

AREA III

FINE ARTS AREAS.

MTH 1125 CALCULUS I
MINIMUM GRADE OF "C" REQ
TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS
AND CORRESPONDING LAB) FROM THE FOLLOWING SCIENCE
DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICA, 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

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 SEMESTED FOR THE UNIVERSITY AND SCIENCES 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,



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MATHEMATICS MAJOR: OPTION 2 (REAL ANALYSIS SEQUENCE)		
MINIMUM 2.00 OV Take the follow	VERALL GPA REQUIRED VING COURSES:	
(MINIMUM G MTH 1126 MTH 2227 MTH 3311 MTH 3318 MTH 3331 MTH 4424 MTH 4441	DIFFERENTIAL EQUATIONS INTRO TO ADVANCED MATHEMATICS	4 HOURS 4 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS
TAKE MTH 4425 REAL ANALYSIS II OR MTH 4442 NUMERICAL ANALYSIS		3 HOURS
SELECT 12 ADDITIONAL HOURS OF UPPER-LEVEL MATHEMATICS COURSES Excluding Mth 4481 (Minimum Grade of 'C' required)		
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