

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2018-19

	EAT	I CE	MESTED		CDD	ING	CEMECTED		SUMMER SEMESTER
1ST YEAR	FALL SEMESTER TROY 1101 1 AREA II FINE ARTS COURSE 3			SPRING SEMESTER ENG 1102/04 3 AREA II HUM/FA COURSE 3			SELECT COURSES THAT HAVE NOT		
	ENG 1101/03	2	AREA IV SS COURSE	3	MTH 1126	3	AREA IV SS COURSE	3	BEEN COMPLETED FROM PREVIOUS
		3	AREA IV SS COURSE	3		4	AREA IV SS COURSE	3	TERMS OR SEMESTERS AS
	MTH 1125	4			MTH 2210	3			PREREQUISITE COURSES OR COURSES
									TO BE RETAKEN
	TOTAL 14				TOTAL 16				
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2ND	FAL	L SE	MESTER		SPR	ING	SEMESTER		SUMMER SEMESTER
	AREA II LIT COURSE	3	MTH 2227	4	REQUIRED MTH	3	AREA II HUM/FA COURSE	3	SELECT COURSES THAT HAVE NOT
YEAR					COURSE				BEEN COMPLETED FROM PREVIOUS
T L/ CC	AREA IV HIS COURSE	3	MTH 3318	3	AREA III SCI/LAB	3/	MNOR COURSE	3	TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES
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	TOTAL 13				TOTAL 16				
	FALL SEMESTER				SPRING SEMESTER			SUMMER SEMESTER	
	1110	L JL	TYLES I LIC		51 IV	UVIL	SLIVILSTLIX		SOMMER SEMESTER
3RD	REQUIRED MTH	3	MINOR COURSE	3	APPROVED MTH ELEC	3	MINOR COURSE	3	SELECT COURSES THAT HAVE NOT
3RD Year				3				3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS
	REQUIRED MTH		MINOR COURSE AREA III SCI/LAB	3/				3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS
	REQUIRED MTH COURSE APPROVED MTH ELEC	3	MINOR COURSE	20.0	APPROVED MTH ELEC APPROVED MTH ELEC	3	MINOR COURSE		SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES
	REQUIRED MTH COURSE	3	MINOR COURSE AREA III SCI/LAB	20.0	APPROVED MTH ELEC	3	MINOR COURSE		SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS
	REQUIRED MTH COURSE APPROVED MTH ELEC	3	MINOR COURSE AREA III SCI/LAB	3/	APPROVED MTH ELEC APPROVED MTH ELEC	3	FREE ELEC		SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES
YEAR	REQUIRED MTH COURSE APPROVED MTH ELEC FREE ELEC	3 3	AREA III SCI/LAB COURSE	3/	APPROVED MTH ELEC APPROVED MTH ELEC AREA IV SS COURSE	3 3	FREE ELEC	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES
YEAR 4TH	REQUIRED MTH COURSE APPROVED MTH ELEC FREE ELEC	3 3	MINOR COURSE AREA III SCI/LAB COURSE TOTA	3/	APPROVED MTH ELEC APPROVED MTH ELEC AREA IV SS COURSE	3 3	FREE ELEC TOT	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
YEAR	REQUIRED MTH COURSE APPROVED MTH ELEC FREE ELEC FAL	3 3 L SE	MINOR COURSE AREA III SCI/LAB COURSE TOTA MESTER	3/ 1 AL 16	APPROVED MTH ELEC APPROVED MTH ELEC AREA IV SS COURSE SPR	3 3 3 ING	FREE ELEC TOT SEMESTER	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS
YEAR 4TH	REQUIRED MTH COURSE APPROVED MTH ELEC FREE ELEC FAL MTH 4424 MTH 4441	3 3 3 L SE 3 3	AREA III SCI/LAB COURSE TOT/ MESTER MINOR COURSE FREE ELEC FREE ELEC	3/ 1 AL 16	APPROVED MTH ELEC APPROVED MTH ELEC AREA IV SS COURSE SPR MTH 4425	3 3 ING 3	FREE ELEC TOT SEMESTER MINOR COURSE	3 FAL 15	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS
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COMPLETE ALL REQUIREMENTS	(49 HOURS)
AREA I	
MINIMUM GRADE OF "C" REQUIRED Eng 1101 comp and modern english i Eng 1102 comp and modern english ii	3 HOURS 3 HOURS
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 Minimum grade of "C" required	4 HOURS
TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS AND CORRESPONDING LAB BOTH REQUIRED) FROM THE FOLLOWING SCIENCE DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICS, PHYSICAL SCIENCE, OR OTHER SCIENCE AREAS. SELECT 2: BIO-1100/L100, BIO 1101/L101, BIO 2202/L202, 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.	8 HOURS
AREA IV	
TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY.	3 HOURS

TAKE ANY THREE 1000-2000 LEVEL COURSES 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.	TAKE AIN 1 1000-2000 LEV	VEL COURSE WITH A PRIMARY FOCUS IN HISTORY.	3 HOURS
	SCIENCE DISCIPLINES: ECONOMICS, GEOGRAI INTERDISCIPLINARY ST	ANTHROPOLOGY, BUSINESS, CRIMINAL JUSTICE, PHY, HISTORY, HUMAN SERVICES, LEADERSHIP, FUDIES, NURSING, POLITICAL SCIENCE, PSYCHOLOGY,	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

TAKE THE FOLLOWING COURSES:				
MTH 2210	INTRODUCTORY STATISTICS	3 HOURS		
MTH 2220	COMPUTER PROGRAMMING FOR MATHEMATICS	3 HOURS		
TROY 1101	UNIVERSITY ORIENTATION	1 HOUR		

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 RATS AND SCIENCES OR CURRENT CATALOG FOR OTHER REQUIREMENTS NOT COVERED IN THIS DOCUMENT.NOTES: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV. PLEASE



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MATHEMATICS MAJOR: OPTION II (REAL ANALYSIS SEQUENCE) 2.0 GPA REQUIRED			
TAKE THE FOLL MTH 1126 MTH 2227 MTH 3311 MTH 3318 MTH 3331 MTH 4441 MTH 4424	CALCULUS III DIFFERENTIAL EQUATIONS INTRO TO ADVANCED MATHEMATICS Linear Algebra Abstract Algebra I	4 HOURS 4 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS	
COURSES. (EXC.	REAL ANALYSIS II IONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS LUDING MTH 4481)	3 HOURS 12 HOURS (18 HOURS)	
AT LEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED COMPLETE THIS DEGREE PROGRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE.			
FREE ELECTIVES REQUIREMENT			
TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.			