



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

	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
1ST YEAR	TROY 1101	1	AREA II FINE ARTS COURSE	3	ENG 1102/04	3	AREA II HUM/FA COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
	ENG 1101/03	3	AREA IV SS COURSE	3	MTH 1126	4	AREA IV SS COURSE	3	
	MTH 1125	4			MTH 2210	3			
	TOTAL 14				TOTAL 16				
2ND YEAR	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
	AREA II LIT COURSE	3	MTH 2227	4	REQUIRED MTH COURSE	3	AREA II HUM/FA COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
	AREA IV HIS COURSE	3	MTH 3318	3	AREA III SCI/LAB COURSE	3/1	MINOR COURSE	3	
					MTH 2220	3			
TOTAL 13				TOTAL 16					
3RD YEAR	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
	REQUIRED MTH COURSE	3	MINOR COURSE	3	APPROVED MTH ELECTIVE	3	MINOR COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
	REQUIRED MTH ELECTIVE	3	AREA III SCI/LAB COURSE	3/1	APPROVED MTH ELECTIVE	3	FREE ELECTIVE	3	
	APPROVED MTH ELECTIVE	3			AREA IV SS COURSE	3			
TOTAL 16				TOTAL 15					
4TH YEAR	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
	MTH 4424	3	MINOR COURSE	3	MTH 4425	3	MINOR COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
	APPROVED MTH ELECTIVE	3	FREE ELECTIVE	3	MINOR COURSE	3	FREE ELECTIVE	3	
			FREE ELECTIVE	3			FREE ELECTIVE	3	
TOTAL 15				TOTAL 15					
FREE ELECTIVES TOTAL PROGRAM 120									

FILE YOUR INTENT TO GRADUATE

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COMPLETE ALL REQUIREMENTS (49 HOURS)

AREA I

MINIMUM GRADE OF "C" REQUIRED

ENG 1101 COMP AND MODERN ENGLISH I 3 HOURS

ENG 1102 COMP AND MODERN ENGLISH II 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 4 HOURS
MINIMUM GRADE OF "C" REQUIRED

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. 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

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MATHEMATICS MAJOR: OPTION II (REAL ANALYSIS SEQUENCE) (38 HOURS)

2.0 GPA REQUIRED

TAKE THE FOLLOWING COURSES:

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 4441	ABSTRACT ALGEBRA I	3 HOURS
MTH 4424	REAL ANALYSIS I	3 HOURS
MTH 4425	REAL ANALYSIS II OR MTH 4442 ABSTRACT ALGEBRA II	3 HOURS

TAKE 12 ADDITIONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS COURSES. (EXCLUDING MTH 4481) 12 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