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

TROY UNIVERSITY ™

	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		

	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
2ND YEAR	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	MNOR COURSE	3	
					MTH 2220	3			
			TOTAL 13				TOTAL 16		

	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
3RD YEAR	REQUIRED MTH COURSE	3	MINOR COURSE	3	APPROVED MTH ELEC	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 ELEC	3	AREA III SCI/LAB COURSE	3/1	APPROVED MTH ELEC	3	FREE ELEC	3	
	FREE ELEC	3			AREA IV SS COURSE	3			
			TOTAL 16				TOTAL 15		

	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
4TH YEAR	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
	MTH 4441	3	FREE ELEC	3	MINOR COURSE	3	FREE ELEC	3	
			FREE ELEC	3	APPROVED MTH ELEC	3			
	FILE YOUR INTENT TO GRADUATE								
			TOTAL 15				TOTAL 15		

TOTAL PROGRAM 120

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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	3 HOURS

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

MINOR   **(18 HOURS)**

AT LEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED COMPLETE THIS   18 HOURS
DEGREE PROGRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE.

FREE ELECTIVES REQUIREMENT   **(15 HOURS)**

TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.   15 HOURS