

MY DEGREE MAP
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE)
PROGRAM YEAR 2016-17

1ST YEAR	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
	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	MNOR 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
	APPROVED 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	
	FILE YOUR INTENT TO GRADUATE								
	TOTAL 15				TOTAL 15				
	FREE ELECTIVES TOTAL PROGRAM 120								



COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2016-17

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
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. 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	APPLIED 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 STUDENT. A 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. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.



COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2016-17

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 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