



**MY DEGREE MAP**  
**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN**  
**MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE)**  
**PROGRAM YEAR 2017-18**

	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER
<b>1ST YEAR</b>	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				
<b>2ND YEAR</b>	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					
<b>3RD YEAR</b>	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					
<b>4TH YEAR</b>	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					
<b>FILE YOUR INTENT TO GRADUATE</b>									<b>FREE ELECTIVES TOTAL PROGRAM 120</b>



## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2017-18

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



**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
MATHEMATICS MAJOR, OPTION 2 (REAL ANALYSIS SEQUENCE)  
PROGRAM YEAR 2017-18**

**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