TROY UNIVERSITY M MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR—OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2019-2020

1 ST YEAR					
1 st SEMESTER	HOURS	2 ND SEMESTER	HOURS		
TROY 1101	1	ENG 1102/04	3		
ENG 1101/03	3	AREA II HUM/FA COURSE	3		
MTH 1125	4	AREA IV SS COURSE	3		
AREA II FINE ARTS COURSE	3	STAT 2210	3		
AREA IV SS COURSE	3	MTH 1126	4		
And the second of the second of the second se	Set In all				
TOTAL	14	TOTAL	16		
	2 ND Y	TEAR			
3 RD SEMESTER	HOURS	4^{TH} SEMESTER	HOURS		
AREA II LIT COURSE	3	MTH 2220	3		
MTH 3318	3	REQ MTH COURSE	3 3		
MTH 2227	4	MINOR COURSE	3		
AREA IV HIS COURSE	3	AREA III SCI/LAB COURSE	3/1		
		AREA II HUM/FA COURSE	3		
AND DESCRIPTION OF A DE		THE REAL PROPERTY OF THE PARTY			
TOTAL	13	TOTAL	16		
	3 rd Y	TEAR			
5 th SEMESTER	HOURS	6 th SEMESTER	HOURS		
REQ MTH COURSE	3	APPROVED MTH ELEC	3		
APPROVED MTH ELEC	3	APPROVED MTH ELEC	3		
FREE ELEC	3	AREA IV SS COURSE	3		
MINOR COURSE	3	MINOR COURSE	3		
AREA III SCI/LAB COURSE	3/1	FREE ELEC	3		
TOTAL	16	TOTAL	15		
4 th YEAR					
7 th SEMESTER	HOURS	8 th SEMESTER	HOURS		
MTH 4424	3	APPROVED MTH ELEC	3		
MTH 4441	3	MINOR COURSE	3		
MINOR COURSE	3	MINOR COURSE	3		
FREE ELEC	3	FREE ELEC	3		
FREE ELEC	3	MTH 4425	3		
SUBMIT GRADUATION	THE STREET	A STATISTICS PROVIDE TO A			
APPLICATION					
TOTAL	15	TOTAL	15		
		TOTAL PROGRAM	120		

COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR—OPTION 2 (REAL ANALYSIS SEQUENCE) PROGRAM YEAR 2019-2020

COMPLETE ALL REQUIREMENTS (49 HOURS) AREA I TAKE THE FOLLOWING COURSES: ENG 1101 ENG 1102 COMP AND MODERN ENGLISH I **3 HOURS** ENG 1102 COMP AND MODERN ENGLISH II MINIMUM GRADE OF "C" REQ **3 HOURS** AREA II TAKE ANY 1000 2000 LEVEL COURSE IN LITERATURE **3 HOURS** TAKE ANY 1000 2000 LEVEL COURSE WITH AN EXPANDED HISTORICAL **3 HOURS** AND CULTURAL SCOPE IN FINE ARTS, INCLUDING THE DISCIPLINES OF ART, MUSIC, THEATRE, FILM, OR OTHER FINE ARTS AREA. TAKE ANY TWO 1000 2000 LEVEL COURSES WITH AN EXPANDED 6 HOURS 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 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" REQ TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS 8 HOURS AND CORRESPONDING LAB) FROM THE FOLLOWING SCIENCE DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICS, PHYSICAL SCIENCE, OR OTHER SCIENCE AREAS. SELECT 2: BIO 1100/L100, BIO 1101/L101, BIO 1120/L120, 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, SCI 2240/L240. AREA IV TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY. **3 HOURS** TAKE THREE 1000-2000 LEVEL COURSE FROM THE FOLLOWING SOCIAL 9 HOURS 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.

NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.

AREA V

NIVERSITY TM

TROY 1101	UNIVERSITY ORIENTATION	1 HOUR
STAT 2210	INTRODUCTORY STATISTICS	3 HOURS
MTH 2220	COMPUTER PROGRAMMING FOR MATHEMATICS	3 HOURS

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. COMPLE-TION OF DEGREE REQUIREMENTS IS BASED ON THE SPECIFIC CATALOG YEAR FOR EACH STUDENTA MINIMUM OF 120 HOURS IS REQUIRED FOR ALL BACCALAUREATE DEGREE MAP. COMPLETE 23% 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 RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMESTER HOURS OF RESIDENCY MUST BE COMPLETED IN RESIDENCY OF STUDYA 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. PLEASE CONSIDER THIS REQUIREMENT. WHEN SELECTING COURSE-WORK IN AREAS 11 OR IV.

UNIVERSITY TM College of Arts and Sciences Approved Academic Plan Mathematics Major—Option 2 (Real Analysis Sequence) Program Year 2019-2020

OY

MINIMUM 2.00 OVERALL GPA REQUIRED

(38 HOURS)

TAKE THE FOLLOV	VING COURSES:	
(MINIMUM G MTH 1126 MTH 2227	RADE OF 'C' REQUIRED) Calculus II Calculus III	4 HOURS 4 HOURS
MTH 3311 MTH 3318 MTH 3331	DIFFERENTIAL EQUATIONS INTRO TO ADVANCED MATHEMATICS LINEAR ALGEBRA	3 HOURS 3 HOURS 3 HOURS
MTH 4424 MTH 4441	REAL ANALYSIS I Abstract Algebra I	3 HOURS 3 HOURS
	25 REAL ANALYSIS II OR MTH 4442 NUMERICAL ANALYSIS	3 HOURS
EXCLUDING N	DITIONAL HOURS OF UPPER-LEVEL MATHEMATICS COURSES MTH 4481 Rade of 'C' Required)	12 HOURS
MINOR		(18 HOURS)
	E 18 SEMESTER HOUR MINOR IS REQUIRED COMPLETE THIS GRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE.	18 HOURS
FREE ELECTIVES R	EQUIREMENT	(15 HOURS)
TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.		15 HOURS

MY DEGREE MAP SERVES AS A GUIDE TO ASSIST YOU WITH THE PROPER SEQUENCE AND SELECTION OF COURSES. IT DOES NOT REPLACE YOUR PROGRAM EVALUATION (AVAILABLE THROUGH TROJAN WEE EXPRESS), WHICH DEPICTS THE OFFICIAL DOCUMENT USED TO CLEAR STUDENTS FOR GRADUATION. MY DEGREE MAP INCLUDES THE REQUIRED COURSE WAR AND SUGGESTED SEQUENCE OF COURSES FOR A PARTICULAR DEGREE PROGRAM. EVERY REASONABLE ATTEMPT HAS BEEN MADE TO ENSURE ACCURACY OF CONTENT. PLEASE KEEP IN MIND THAT SOME COURSES. SUCH AS DEVELOPMENTAL OR PRE-REQUISITE COURSES, ARE NOT REFLECTED IN MY DEGREE MAP. COMPLETION OF DEGREE REQUIREMENTS IS BASED ON THE SPECIFIC CATALOG YEAR UNDER WHICH YOU WERE ADMITTED TO TROY. PLEASE CONSULT THE COLLEGE CATALOG, YOUR ACADEMIC ADVISOR, YOUR SPECIFIC SCHOOL, DEPARTMENT, OR YOUR PROGRAM EVALUATION FOR ANY ADDITIONAL REQUIREMENTS.