MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR—OPTION 2 (STATISTICS CONCENTRATION) PROGRAM YEAR 2024-25

1ST YEAR					
1ST SEMESTER	HRS	2ND SEMESTER	HRS		
TROY 1101 OR TROY1105	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		
TOTAL	14	TOTAL	16		
2ND YEAR					
3RD SEMESTER	HRS	4TH SEMESTER	HRS		
AREA II LIT COURSE	3	MTH 2220	3		
MTH 3318	3	MTH 3311	3		
MTH 2227	4	MINOR COURSE	3		
AREA IV HIS COURSE	3	AREA III SCI/LAB COURSE	3/1		
FREE ELEC	3	STAT 3350	3		
TOTAL	16	TOTAL	16		
3RD YEAR					
5TH SEMESTER	HRS	6TH SEMESTER	HRS		
MTH 3331	3	APPROVED STAT ELEC	3		
STAT 4451 Area II Hum/Fa Course	3	STAT 4452 Area IV SS Course	3		
MINOR COURSE	3	MINOR COURSE	3		
AREA III SCI/LAB COURSE	3/1	FREE ELEC	3		
AREA III SCI/ LAB COORSE	5/1		5		
TOTAL	16	TOTAL	15		
4TH YEAR					
7TH SEMESTER	HRS	8TH SEMESTER	HRS		
MTH 4424	3	APPROVED STAT ELEC	3		
MTH 4441	3	MINOR COURSE	3		
MINOR COURSE	3	MINOR COURSE	3		
FREE ELEC	3	FREE ELEC	3		
FREE ELEC	3		0		
SUBMIT GRADUATION	5				
APPLICATION					
TOTAL	15	TOTAL	12		
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COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN UNIVERSITY TO MATHEMATICS MAJOR-OPTION 2 (STATISTICS CONCENTRATION)

PROGRAM YEAR 2024-25

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COMPLETE ALL REQUIREMENTS	(49 HOURS)			
AREA I				
TAKE THE FOLLOWING COURSES: Eng 1101 comp and modern English I Eng 1102 comp and modern English II Minimum grade of "C" Req.	3 HOURS 3 HOURS			
AREA II				
TAKE ANY 1000 2000 LEVEL COURSE IN LITERATURE 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 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, Nursing, 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" REQ	4 HOURS			
TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS AND CORRESPONDING LAB) FROM THE FOLLOWING SCIENCE DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICS, PHYSICAL SCIENCE, OR OTHER SCIENCE AREAS.	8 HOURS			
AREA IV				
TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY. Take Three 1000-2000 Level Course from the following social Science Disciplines: Anthropology, Business, Criminal Justice, Economics, Geography, History, Human Services, Leadership, Hospitality, Sport, & Tourism Management, Interdisciplinary Studies, Nursing, Political Science, Psychology, Nutrition, Religion, Social Work, Sociology, Or Other Social Science Areas.	3 HOURS 9 HOURS			
NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.				
AREAV				

TROY 1101 OR TROY 1105 1 HOUR STAT 2210 INTRODUCTORY STATISTICS **3 HOURS** COMPUTER PROGRAMMING FOR MATHEMATICS MTH 2220 **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. 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. PLEASE CONSIDER THIS REQUIREMENT. WHEN SELECTING COURSEWORK IN AREAS II OR IV,

IKOY UNIVERSITY TO COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN MATHEMATICS MAJOR—OPTION 2 (STATISTICS CONCENTRATION) PROGRAM YEAR 2024-25

MATHEMATICS MAJOR: OPTION 2 (REAL ANALYSIS SEQUENCE)

(38 HOURS)

MINIMUM 2.00 OVERALL GPA REQUIRED TAKE THE FOLLOWING COURSES:

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IIMUM G	RADE OF 'C' REQUIRED)	
1126	CALCULUS II	4 HOURS
2227	CALCULUS III	4 HOURS
3311	DIFFERENTIAL EQUATIONS	3 HOURS
3318	INTRO TO ADVANCED MATHEMATICS	3 HOURS
3331	LINEAR ALGEBRA	3 HOURS
4424	REAL ANALYSIS I	3 HOURS
4441	ABSTRACT ALGEBRA I	3 HOURS
3350	STATISTICAL METHODS & COMPUTATIONS	3 HOURS
4451	MATHEMATICAL STATISTICS I	3 HOURS
4452	MATHEMATICAL STATISTICS II	3 HOURS
		6 HOURS
		3 HOURS
4464	MULTIVARIATE ANALYSIS	3 HOURS
		(18 HOURS)
AT LEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED COMPLETE THIS		18 HOURS
REE ELECTIVES REQUIREMENT		(15 HOURS)
TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.		15 HOURS
	1126 2227 3311 3318 3318 3311 4424 4441 3350 4451 4452 SIX (6) H 3355 4459 4465 4465 4466 4467 4456 4467 4468 EAST ONH REE PROCE CTIVES I	2227CALCULUS III3311DIFFERENTIAL EQUATIONS3318INTRO TO ADVANCED MATHEMATICS3331LINEAR ALGEBRA4424REAL ANALYSIS I4441ABSTRACT ALGEBRA I3350STATISTICAL METHODS & COMPUTATIONS4451MATHEMATICAL STATISTICS I4452MATHEMATICAL STATISTICS II51X (6) HOURS OF UPPER-LEVEL STAT COURSES FROM THE FOLLOWING:3355SURVEY SAMPLING4457REGRESSION ANALYSIS4466DATA MINING4457EXPERIMENTAL DESIGN4456MATHEMATICS OF FINANCE4464MULTIVARIATE ANALYSIS4464MULTIVARIATE ANALYSISEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED COMPLETE THISREF PROGRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE.ECTIVES REQUIREMENTS

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, WHICH DEPICTS THE OFFICIAL DOCUMENT USED TO CLEAR STUDENTS FOR GRADUATION. MY DEGREE MAP INCLUDES THE REQUIRED COURSE WORK 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. ENOMPLETION 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.