

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
TOTAL	14	TOTAL	16
2 ND YEAR			
3 RD SEMESTER	HOURS	4 TH SEMESTER	HOURS
AREA II LIT COURSE	3	MTH 2220	3
MTH 3318	3	REQ MTH COURSE	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
TOTAL	13	TOTAL	16
3 RD YEAR			
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 APPLICATION			
TOTAL	15	TOTAL	15
		TOTAL PROGRAM	120



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COMPLETE ALL REQUIREMENTS (49 HOURS)

AREA I

TAKE THE FOLLOWING COURSES:

ENG 1101 COMP AND MODERN ENGLISH I 3 HOURS
ENG 1102 COMP AND MODERN ENGLISH II 3 HOURS
MINIMUM GRADE OF "C" REQ

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" REQ
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. 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. 8 HOURS

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 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

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



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MATHEMATICS MAJOR: OPTION 2 (REAL ANALYSIS SEQUENCE) (38 HOURS)

MINIMUM 2.00 OVERALL GPA REQUIRED
TAKE THE FOLLOWING COURSES:

(MINIMUM GRADE OF 'C' REQUIRED)

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 4424	REAL ANALYSIS I	3 HOURS
MTH 4441	ABSTRACT ALGEBRA I	3 HOURS

TAKE MTH 4425 REAL ANALYSIS II OR MTH 4442 NUMERICAL ANALYSIS 3 HOURS

SELECT 12 ADDITIONAL HOURS OF UPPER-LEVEL MATHEMATICS COURSES EXCLUDING MTH 4481 (MINIMUM GRADE OF 'C' REQUIRED) 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