

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES BACHELOR OF SCIENCE IN PHYSICS AND MATHEMATICS PROGRAM YEAR 2023-24

1 ST YEAR				
1 ST SEMESTER	HOURS	2 ND SEMESTER	HOURS	
TROY 1101	1	ENG 1102/04	3	
ENG 1101/03	3	MTH 1126	4	
MTH 1125	4	PHY 2262/L262	3/1	
AREA IV SS COURSE	3	STAT 2210	3	
AREA III SCI/LAB COURSE	3/1	AREA IV SS COURSE	3	
TOTAL	15	TOTAL	17	
2 ND YEAR				
3 RD SEMESTER	HOURS	4 TH SEMESTER	HOURS	
PHY MAJ ELEC (DR PHY 3359/L359)	3/1	PHY 3310/L310	3/1	
MTH 2227	4	AREA IV HIS COURSE	3	
MTH 3331	3	MTH 3311	3	
PHY 2263/L263	3/1	MTH 3318	3	
		CS 2250 OR MTH 2220	3	
TOTAL	45	TOTAL	1/	
TOTAL	15 2RD X	TOTAL YEAR	16	
5 TH SEMESTER	HOURS	6 TH SEMESTER	HOURS	
AREA II LIT COURSE	3	AREA IV SS COURSE	3	
PHY 3325	3	AREA II HUM/FA COURSE	3	
MTH 4424	3	REQ PHY ELEC (DR PHY 4446)*	3	
PHY 4445	3	REQ MTH/STAT ELEC	3	
MTH 4441	3	STAT 4451 OR REQ MTH 4425 OR	3	
		MTH 4442		
TOTAL	15	TOTAL	15	
4 TH YEAR				
7 th SEMESTER	HOURS	8 TH SEMESTER	HOURS	
PHY 4420	3	AREA II HUM/FA COURSE	3	
PHY 4435	3	AREA II FINE ARTS COURSE	3	
REQ PHY ELEC (DR PHY 3320)	3	REQ PHY ELEC (DR PHY 3321)	3	
STAT 3350	3	REQ PHY ELEC (DR PHY 4438 OR 4440) *	3	
REQ_MTH/STAT_ELEC	3	REQ MTH/STAT ELEC (DR STAT 4467)	3	
SUBMIT GRADUATION APPLICATION		REQ PHY ELEC	1	
	PART B		ALC: NO	
TOTAL	15	TOTAL	16	
TONE	10	TOTALE		



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COMPLETE ALL REQUIREMENTS			
AREA I			
ENG 1101 COMP AND MODERN ENGLISH I ENG 1102 COMP AND MODERN ENGLISH II MINIMUM GRADE OF "C" REQUIRED	3 HOURS 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.			
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		
PHY 2262/LAB PHYSICS I W/ CALCULUS AND LAB TAKE ANY ONE 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, SCI 2233/L233, SCI 2234/L234.			
AREA IV			
TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY. 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.			
AREAV			
CS 2250 COMPUTER SCIENCE I TROY 1101 THE UNIVERSITY EXPERIENCE STAT 2210 INTRODUCTORY STATISTICS	3 HOURS 1 HOUR 3 HOURS		



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PHYSICS MAJOR 2.0 GPA REQUIRED		(37 HOURS)
PHY 2263/L26	OWING COURSES: 3 PHYSICS II WITH CALCULUS/LAB 4 MODERN PHYSICS/LAB 5 THERMODYNAMICS 6 MECHANICS 6 ELECTRICITY & MAGNETISM 6 QUANTUM MECHANICS I	3/1 HOURS 3/1 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS
PHYSICS MAJOR EL	ECTIVES	
PHY 3320 (3), PH PHY 4438 (3), PH PHY 4475 (3), PH	TIONAL 17 HOURS FROM THE FOLLOWING: (Y 3321 (3), PHY 3359/L359 (3/1), (Y 4440 (3), PHY 4446 (3), PHY 4460 (3), (Y 4478 (3), PHY 4482 (3), PHY 4483 (1), PHY 4484 (1), (Y 4495 (3), PHY 4491 (3), PHY 4492 (3), PHY 4493 (3), (TH 3364 (3))	17 HOURS
MATHEMATICS MA	OR	(38 HOURS)
MTH 1126 MTH 2227 MTH 3311 MTH 3318 MTH 3331 MTH 3350	OWING COURSES: CALCULUS II CALCULUS III DIFFERENTIAL EQUATIONS INTRO TO ADVANCED MATHEMATICS LINEAR ALGEBRA STATISTICAL METHODS & COMPUTATIONS REAL ANALYSIS I ABSTRACT ALGEBRA I	4 HOURS 4 HOURS 3 HOURS
OPTION 1:		
MTH 4425 MTH 4442 STAT 4451	REAL ANALYSIS II ABSTRACT ALGEBRA MATHEMATICAL STATISTICS I	3 HOURS 3 HOURS 3 HOURS
	ONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS Courses. (excluding mth 4481)	3 HOURS
OPTION 2:		
STAT 4451 STAT 4452		3 HOURS 3 HOURS
	ONAL HOURS OF UPPER-LEVEL (3000 OR 4000) STATISTICS COURSES. 4459, STAT 4465, STAT 4466, STAT 4467, STAT 4456, OR STAT 4464.	6 HOURS

DR DENOTES DEPARTMENTAL RECOMMENDED COURSE.

MOST 3000- AND 4000-LEVEL COURSES IN PHYSICS ARE OFFERED ONCE EVERY OTHER YEAR, BUT THE SCHEDULE MAY CHANGE ACCORDING TO DEMAND. CONSULT A PHYSICS ADVISOR FOR PLANNED COURSE OFFERINGS.

*UNDER THIS SCHEDULE, DURING THE 8TH SEMESTER (SPRING 4TH YEAR), A STUDENT MAY CHOOSE TO TAKE BOTH PHY 4438 AND PHY 4440, THEREBY REPLACING ONE REQUIRED MAJOR ELECTIVE DURING THE 6TH SEMESTER (SPRING 3RD YEAR) OR 7TH SEMESTER (FALL 4TH YEAR)

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. 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.