

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES BACHELOR OF SCIENCE IN PHYSICS AND MATHEMATICS PROGRAM YEAR 2022-23

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 3318	3	MTH 3311	3	
PHY 2263/L263	3/1	MTH 3331	3	
Statistical Alberta Co.		CS 2250 OR MTH 2220	3	
TOTAL	15	TOTAL	16	
3 RD YEAR				
5 TH SEMESTER	HOURS	6 TH SEMESTER	HOURS	
AREA II LIT COURSE	3	AREA IV SS COURSE	3	
PHY 4420		AREA II HUM/FA COURSE	3	
MTH 4424	3	REQ PHY ELEC (DR PHY 4438 OR 4440)*	3	
PHY 4435	3	REQ_MTH/STAT_ELEC (DR MTH 3364)	3	
MTH 4441	3	STAT 4451 OR REQ MTH 4425 OR MTH 4442	3	
	THE PARTY OF			
TOTAL	15	TOTAL	15	
	4 TH \	/EAR		
7 TH SEMESTER	HOURS	8 TH SEMESTER	HOURS	
PHY 3325	3	AREA II HUM/FA COURSE	3	
PHY 4445	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 4446) *	3	
REQ MTH/STAT ELEC (DR MTH 4460)	3	REQ MTH/STAT ELEC (DR STAT 4467)	3	
SUBMIT GRADUATION APPLICATION		REQ PHY ELEC	1	
	William .		WALL THE	
TOTAL	15	TOTAL	16	
		TOTAL HOURS	124	



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COMPLETE ALL REQUIREMENTS	(49 HOURS)	
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.	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	
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.	3/1 HOURS 3/1 HOURS	
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.	3 HOURS 9 HOURS	
AREAV		
CS 2250 COMPUTER SCIENCE I TROY 1101 THE UNIVERSITY EXPERIENCE STAT 2210 INTRODUCTORY STATISTICS	3 HOURS 1 HOUR 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.



COLLEGE OF ARTS AND SCIENCES BACHELOR OF SCIENCE IN PHYSICS AND MATHEMATICS PROGRAM YEAR 2022-23

PHYSICS MAJOR 2.0 GPA REQUIRED	(37 HOURS)
TAKE THE FOLLOWING COURSES: PHY 2263/L263 PHYSICS II WITH CALCULUS/LAB PHY 3310/L310 MODERN PHYSICS/LAB PHY 3325 THERMODYNAMICS PHY 4420 MECHANICS PHY 4435 ELECTRICITY & MAGNETISM PHY 4445 QUANTUM MECHANICS I	3/1 HOURS 3/1 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS
PHYSICS MAJOR ELECTIVES	
TAKE AN ADDITIONAL 17 HOURS FROM THE FOLLOWING: PHY 3320 (3), PHY 3321 (3), PHY 3359/L359 (3/1), PHY 4438 (3), PHY 4440 (3), PHY 4446 (3), PHY 4460 (3), PHY 4475 (3), PHY 4478 (3), PHY 4482 (3), PHY 4483 (1), PHY 4484 (1), PHY 4485 (1), PHY 4495 (3), PHY 4491 (3), PHY 4492 (3), PHY 4493 (3), PHY 4494 (3), MTH 3364 (3)	17 HOURS
MATHEMATICS MAJOR	(38 HOURS)
TAKE THE FOLLOWING COURSES: MTH 1126 CALCULUS II MTH 2227 CALCULUS III MTH 3311 DIFFERENTIAL EQUATIONS MTH 3318 INTRO TO ADVANCED MATHEMATICS MTH 3331 LINEAR ALGEBRA MTH 3350 STATISTICAL METHODS & COMPUTATIONS MTH 4424 REAL ANALYSIS I MTH 4441 ABSTRACT ALGEBRA I	4 HOURS 4 HOURS 3 HOURS
OPTION 1:	
MTH 4425 REAL ANALYSIS II MTH 4442 ABSTRACT ALGEBRA STAT 4451 MATHEMATICAL STATISTICS I	3 HOURS 3 HOURS 3 HOURS
TAKE 3 ADDITIONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS OR STATISTICS COURSES. (EXCLUDING MTH 4481)	3 HOURS
OPTION 2:	
STAT 4451 MATHEMATICAL STATISTICS I STAT 4452 MATHEMATICAL STATISTICS II	3 HOURS 3 HOURS
TAKE 6 ADDITIONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS OR STATISTICS COURSES. (EXCLUDING MTH 4481)	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 6th semester (Spring 3rd Year), a student may choose to take both PHY 4438 and PHY 4440, thereby replacing one required major elective during the 8th semester (Spring 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, SUICH 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.