TROY UNIVERSITY M MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN PHYSICS MAJOR-PROGRAM YEAR 2016-2017

		1 st YEAR		
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER
IALL SEWLSTER		STRING SEMISTER		
				SEMESTER
TROY 1101	1	ENG 1102/04	3	SELECT COURSES
ENG 1101/03	3	PHY 2262/LAB	3/1	THAT HAVE NOT
MTH 1125	4	MTH 1126	4	BEEN Completed
AREA III SCI/LAB COURSE	3/1	AREA III SCI/LAB COURSE	3/1	FROM PREVIOUS
A REAL PROPERTY OF A REAL PROPERTY OF		(CHM 1142/LAB DR)		2 SEMESTERS OR Courses such
AREA IV SS COURSE	3	CONFERENCE AND THE PROPERTY AND		AS
TOTAL	15	TOTAL	15	PREREQUISITE Courses or
				COURSES TO BE
				RETAKEN
2 ND YEAR				
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER
				SEMESTER
PHY 2263/LAB	3/1	AREA IV SS COURSE	3	SELECT COUDSES
REQ MAJ ELEC (PHY 3359/LAB	3/1	PHY 3310/LAB	3/1	SELECT COURSES
DR)				BEEN
MTH 2227	4	AREA II FINE ARTS COURSE	3	COMPLETED FROM PREVIOUS
CS 2250	3	MINOR COURSE	3	2 SEMESTERS OR
	0	AREA II LIT COURSE	3	COURSES SUCH AS
and the second s			5	PREREQUISITE
TOTAL	15	TOTAL	16	COURSES OR Courses to be
IOTAL	15		10	RETAKEN
3 RD YEAR				
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER Semester
	HRS 3		HRS 3	SEMESTER
FALL SEMESTER Phy 3325		REQ MAJ ELEC (PHY 4446		SEMESTER SELECT COURSES
РНҮ 3325	3	REQ MAJ ELEC (PHY 4446 DR)	3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN
PHY 3325 PHY 4445	3	REQ MAJ ELEC (PHY 4446 DR) Free Elec	3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED
PHY 3325 PHY 4445 AREA IV SS COURSE	3 3 3	REQ MAJ ELEC (PHY 4446 DR) Free Elec Minor Course	3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364	3 3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE	3 3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH
PHY 3325 PHY 4445 AREA IV SS COURSE	3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS	3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE	3 3 3 3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE	3 3 3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364	3 3 3 3	REQ_MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL	3 3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL	3 3 3 3 3 3 15	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR	3 3 3 3 3 3 15	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE	3 3 3 3 3 3	REQ_MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL	3 3 3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL	3 3 3 3 3 3 15	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR	3 3 3 3 3 3 15	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER	3 3 3 3 3 15 HRS	REQ_MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER	3 3 3 3 3 15 HRS	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SUMMER SEMESTER
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL	3 3 3 3 3 3 15	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS	3 3 3 3 3 3 15	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES OR COURSES TO BE RETAKEN SUMMER SEMESTER SELECT COURSES
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420	3 3 3 3 3 3 15 HRS 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE	3 3 3 3 3 3 15 HRS 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES TO BE RETAKEN SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER	3 3 3 3 3 15 HRS	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ MAJ ELEC (PHY 4438 OR	3 3 3 3 3 15 HRS	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420 PHY 4435	3 3 3 3 3 3 15 HRS 3 3	REQ_MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ_MAJ ELEC (PHY 4438 OR PHY 4440)	3 3 3 3 3 3 15 HRS 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420 PHY 4435 AREA IV HIS COURSE	3 3 3 3 3 3 15 HRS 3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ MAJ ELEC (PHY 4438 OR PHY 4440) MINOR COURSE	3 3 3 3 3 3 15 HRS 3 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES OR COURSES TO BE RETAKEN SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420 PHY 4435 AREA IV HIS COURSE FREE ELEC	3 3 3 3 3 3 15 HRS 3 3 3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ MAJ ELEC (PHY 4438 OR PHY 4440) MINOR COURSE FREE ELEC	3 3 3 3 3 3 15 HRS 3 3 3 2	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES TO BE RETAKEN SEMESTERS SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420 PHY 4435 AREA IV HIS COURSE FREE ELEC MINOR COURSE	3 3 3 3 3 3 15 HRS 3 3 3 3 3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ MAJ ELEC (PHY 4438 OR PHY 4440) MINOR COURSE FREE ELEC FREE ELEC	3 3 3 3 3 3 15 HRS 3 3 3 2 3 3	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES TO BE RETAKEN SEMESTERS SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420 PHY 4435 AREA IV HIS COURSE FREE ELEC MINOR COURSE FILE YOUR INTENT TO GRADUATE	3 3 3 3 3 3 15 HRS 3 3 3 3 3	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ MAJ ELEC (PHY 4438 OR PHY 4440) MINOR COURSE FREE ELEC	3 3 3 3 3 3 15 HRS 3 3 3 2	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE
PHY 3325 PHY 4445 AREA IV SS COURSE MTH 3364 MINOR COURSE TOTAL FALL SEMESTER PHY 4420 PHY 4420 PHY 4435 AREA IV HIS COURSE FREE ELEC MINOR COURSE FILE YOUR INTENT TO GRADUATE TOTAL	3 3 3 3 3 3 15 HRS 3 3 3 3 3 15	REQ MAJ ELEC (PHY 4446 DR) FREE ELEC MINOR COURSE MINOR COURSE AREA II HUM/FINE ARTS COURSE TOTAL 4 TH YEAR SPRING SEMESTER AREA II HUM/FINE ARTS COURSE REQ MAJ ELEC (PHY 4438 OR PHY 4440) MINOR COURSE FREE ELEC FREE ELEC	3 3 3 3 3 3 3 15 HRS 3 3 3 2 3 3 14	SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES OR COURSES TO BE



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COMPLETE ALL REQUIREMENTS (54 HOURS) AREA I MINIMUM GRADE OF "C" REQUIRED ENG 1101 COMP AND MODERN ENGLISH I **3 HOURS** 1102 COMP AND MODERN ENGLISH II **3 HOURS** ENG 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" REQUIRED TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS 8 HOURS 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, PHY 2262/L262, PHY 2263/L263, SCI 2233/L233, SCI 2234/L234. AREA IV TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY. **3 HOURS** TAKE ANY THREE 1000-2000 LEVEL COURSES 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 TAKE THE FOLLOWING COURSES: TROY 1101 UNIVERSITY ORIENTATION 1 HOUR CS 2250 COMPUTER SCIENCE I **3 HOURS** MTH 1126 CALCULUS II 4 HOURS 2262/L262 PHYSICS I WITH CALCULUS/LAB 3/1 HOURS PHY

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 STUDENTA MINIMUM OF 120 HOURS IS REQUIRED FOR ALL BACCALAURETE DEGREE PROGRAMS.AT LEAST 25% OF THE CREDIT HOURS IS REQUIRED FOR THE DEGREE MUST BE COMPLETED IN RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMISTER HOURS OF RESIDENCY MUST BE COMPLETED IN RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMISTER HOURS OF RESIDENCY MUST BE COMPLETED IN RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMISTER HOURS OF RESIDENCY MUST BE COMPLETED IN RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMISTER HOURS OF RESIDENCY MUST BE COMPLETED IN REGURED 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.



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PHYSICS MAJOR 2.0 GPA REQUIRED

(37 HOURS)

MTH 3364 VECTOR CALCULUS 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 MAJOR ELECTIVES: TAKE AN ADDITIONAL TEN HOURS FROM THE FOLLOWING: PHY 3320 (3), PHY 3321 (3), PHY 3359/L359 (3/1), PHY 4438 (3), PHY 4440 (3).	4 HOURS 3 HOURS 3/1 HOURS 3/1 HOURS 3 HOURS 3 HOURS 3 HOURS 3 HOURS 10 HOURS	
PHY 4446 (3), PHY 4460 (3), PHY 4470 (3), PHY 4475 (3), PHY 4478 (3), PHY 4480 (3), PHY 4482 (3), PHY 4495 (3), PHY 4491 (3), PHY 4492 (3), PHY 4493 (3), OR PHY 4494 (3)		
MINOR REQUIREMENT	(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	(11 HOURS)	
TAKE 11 SEMESTER HOURS OF FREE ELECTIVE CREDIT.	11 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 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.