

## MY DEGREE MAP

### COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN

### PHYSICS MAJOR-PROGRAM YEAR 2020-21

1 <sup>ST</sup> YEAR				
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER SEMESTER
TROY 1101	1	ENG 1102/04	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
ENG 1101/03	3	PHY 2262/LAB	3/1	
MTH 1125	4	MTH 1126	4	
FREE ELEC	3	AREA III SCI/LAB COURSE (CHM 1142/LAB DR)	3/1	
AREA IV HIS COURSE	3			
TOTAL	14	TOTAL	15	
2 <sup>ND</sup> YEAR				
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER SEMESTER
PHY 2263/LAB	3/1	AREA IV SS COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
REQ MAJOR ELECTIVE (PHY 3359/LAB DR)	3/1	PHY 3310/LAB	3/1	
REQ MAJOR ELECTIVE (MTH 2227 DR)	4	AREA II LIT COURSE	3	
CS 2250	3	MINOR COURSE	3	
		FREE ELEC	3	
TOTAL	15	TOTAL	16	
3 <sup>RD</sup> YEAR				
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER SEMESTER
PHY 3325	3	REQ MAJOR ELECTIVE (PHY 4446 DR)	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
PHY 4445	3	FREE ELEC	3	
AREA IV SS COURSE	3	MINOR COURSE	3	
REQ MAJ ELECTIVE (MTH 3364 DR)	3	AREA II HUM/FA COURSE	3	
MINOR COURSE	3	MINOR COURSE	3	
TOTAL	15	TOTAL	15	
4 <sup>TH</sup> YEAR				
FALL SEMESTER	HRS	SPRING SEMESTER	HRS	SUMMER SEMESTER
PHY 4420	3	REQ MAJOR ELECTIVE (PHY 4438 OR 4440 DR)	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS 2 SEMESTERS OR COURSES SUCH AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN
PHY 4435	3	AREA II HUM/FINE ARTS	3	
AREA II FINE ARTS COURSE	3	MINOR COURSE	3	
AREA IV SS COURSE	3	FREE ELEC	3	
MINOR COURSE	3	FREE ELEC	3	
SUBMIT YOUR GRADUATION APPLICATION TOTAL	15	TOTAL	15	
MINIMUM HOURS REQUIRED FOR DEGREE				120





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### COMPLETE ALL REQUIREMENTS

(50 HOURS)

#### AREA I

MINIMUM GRADE OF "C" REQUIRED

ENG 1101 COMP AND MODERN ENGLISH I  
ENG 1102 COMP AND MODERN ENGLISH II

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/L262 PHYSICS I WITH CALCULUS/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, PHY 2262/L262, PHY 2263/L263, SCI 1110/L110 SCI 2233/L233, SCI 2234/L234. (CHM 1142/LAB DR) DR DENOTES DEPARTMENTAL RECOMMENDATION.

3/1 HOURS  
3/1 HOURS

#### 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 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

TAKE THE FOLLOWING COURSES:

TROY 1101 THE UNIVERSITY EXPERIENCE  
CS 2250 COMPUTER SCIENCE I  
MTH 1126 CALCULUS II

1 HOUR  
3 HOURS  
4 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 APPROVED ACADEMIC PLAN PHYSICS MAJOR-PROGRAM YEAR 2020-21

### PHYSICS MAJOR (37 HOURS) 2.0 GPA REQUIRED

TAKE THE FOLLOWING COURSES:

PHY 2263/L263	PHYSICS II WITH CALCULUS/LAB	3/1 HOURS
PHY 3310/L310	MODERN PHYSICS/LAB	3/1 HOURS
PHY 3325	THERMODYNAMICS	3 HOURS
PHY 4420	MECHANICS	3 HOURS
PHY 4435	ELECTRICITY & MAGNETISM	3 HOURS
PHY 4445	QUANTUM MECHANICS I	3 HOURS

### MAJOR ELECTIVES:

TAKE AN ADDITIONAL 17 HOURS FROM THE FOLLOWING:

MTH 2227 (4), MTH 3364 (3), PHY 3320 (3), PHY 3321 (3), PHY 3359/L359 (3/1), PHY 4438 (3), PHY 4440 (3), PHY 4446 (3), PHY 4460 (3), PHY 4470 (3), PHY 4475 (3), PHY 4478 (3), PHY 4482 (3), PHY 4483 (1), PHY 4484 (1), PHY 4485 (1) PHY 4495 (3), PHY 4491 (1-4), PHY 4492 (1-4), PHY 4493 (1-4), OR PHY 4494 (1-4)	17 HOURS
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### 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 (15 HOURS)

TAKE 15 SEMESTER HOURS OF FREE ELECTIVE CREDIT.

15 HOURS