TROY UNIVERSITY™

MY DEGREE MAP
COLLEGE OF ARTS AND SCIENCES
BACHELOR OF SCIENCE IN PHYSICS AND MATHEMATICS
PROGRAM YEAR 2020-21

1ST YEAR			
1ST SEMESTER	HOURS	2ND SEMESTER	HOURS
TROY 1101	1	ENG 1102/04	3
ENG 1101/03	3	MTH 1126	4
MTH 1125	4	AREA II FINE ARTS COURSE	3
AREA IV SS COURSE	3	STAT 2210	3
AREA II HUM/FA COURSE	3	CS 2250	3
TOTAL	14	TOTAL	16
2ND YEAR			
3RD SEMESTER	HOURS	4TH SEMESTER	HOURS
AREA II LIT COURSE	3	PHY 2263/L263	3/1
MTH 2227	4	AREA IV HIS COURSE	3
MTH 3318	3	MTH 3311	3
AREA IV SS COURSE	3	MTH 3331	3
PHY 2262/L262	3/1	AREA III SCI/LAB COURSE	3/1
TOTAL	17	TOTAL	17
3RD YEAR			
5TH SEMESTER	HOURS	6TH SEMESTER	HOURS
PHY 3310/L310	3/1	PHY 3325	3
PHY 4420	3	AREA II HUM/FA COURSE	3
MTH 4424	3	PHY 4435	3
REQ PHYSICS ELEC	3	STAT 3350 OR MTH 4425	3
MTH 4441	3	STAT 4451 OR REQ MTH/STAT ELEC	3
TOTAL	16	TOTAL	15
4TH YEAR			
7TH SEMESTER	HOURS	8TH SEMESTER	HOURS
PHY 4445	3	AREA IV SS COURSE	3
REQ PHYSICS ELEC	3	REQ PHYSICS ELEC	3
REQ PHYSICS ELEC	3	REQ PHYSICS ELEC	3
REQ MTH/STAT ELEC	3	REQ PHYSICS ELEC	2
REQ MTH/STAT ELEC	3	REQ MTH/STAT ELEC	3
SUBMIT GRADUATION APPLICATION			
TOTAL	15	TOTAL	14
		TOTAL HOURS	124

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COMPLETE ALL REQUIREMENTS   **(49 HOURS)**

AREA I

ENG 1101	COMP AND MODERN ENGLISH I	3 HOURS
ENG 1102	COMP AND MODERN ENGLISH II	3 HOURS

MINIMUM GRADE OF "C" REQUIRED

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

PHY 2262/LAB   PHYSICS I W/ CALCULUS AND LAB   3/1 HOURS
TAKE ANY ONE 1000-2000 LEVEL SCIENCE CLASSES (CLASS   3/1 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, SCI 1110/SCI L110, 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.

AREA V

CS 2250	COMPUTER SCIENCE I	3 HOURS
TROY 1101	THE UNIVERSITY EXPERIENCE	1 HOUR
STAT 2210	INTRODUCTORY STATISTICS	3 HOURS

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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

PHYSICS MAJOR ELECTIVES

TAKE AN ADDITIONAL 17 HOURS FROM THE FOLLOWING: 17 HOURS
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)

MATHEMATICS MAJOR   (38 HOURS)

TAKE THE FOLLOWING COURSES:

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

OPTION 1:

STAT	3350	STATISTICAL METHODS & COMPUTATIONS	3 HOURS
STAT	4451	MATH STATS I	3 HOURS

TAKE 9 ADDITIONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS OR STATISTICS   9 HOURS
COURSES. (EXCLUDING MTH 4481)

OPTION 2:

MTH	4425	REAL ANALYSIS II	3 HOURS

TAKE 12 ADDITIONAL HOURS OF UPPER-LEVEL (3000 OR 4000) MATHEMATICS OR STATISTICS   12 HOURS
COURSES. (EXCLUDING MTH 4481)