

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

<b>1<sup>ST</sup> YEAR</b>			
<b>1<sup>ST</sup> SEMESTER</b>	<b>HOURS</b>	<b>2<sup>ND</sup> SEMESTER</b>	<b>HOURS</b>
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
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>17</b>
<b>2<sup>ND</sup> YEAR</b>			
<b>3<sup>RD</sup> SEMESTER</b>	<b>HOURS</b>	<b>4<sup>TH</sup> SEMESTER</b>	<b>HOURS</b>
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
		CS 2250 OR MTH 2220	3
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>3<sup>RD</sup> YEAR</b>			
<b>5<sup>TH</sup> SEMESTER</b>	<b>HOURS</b>	<b>6<sup>TH</sup> SEMESTER</b>	<b>HOURS</b>
AREA II LIT COURSE	3	AREA IV SS COURSE	3
PHY 4420	3	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
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>4<sup>TH</sup> YEAR</b>			
<b>7<sup>TH</sup> SEMESTER</b>	<b>HOURS</b>	<b>8<sup>TH</sup> SEMESTER</b>	<b>HOURS</b>
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
<b>SUBMIT GRADUATION APPLICATION</b>		REQ PHY ELEC	1
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>TOTAL HOURS</b>			<b>124</b>

**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 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 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 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

**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

**AREA V**

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

**PHYSICS MAJOR  
2.0 GPA REQUIRED**

**(37 HOURS)**

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 3350	STATISTICAL METHODS & COMPUTATIONS	3 HOURS
MTH 4424	REAL ANALYSIS I	3 HOURS
MTH 4441	ABSTRACT ALGEBRA I	3 HOURS

**OPTION 1:**

MTH 4425	REAL ANALYSIS II	3 HOURS
MTH 4442	ABSTRACT ALGEBRA	3 HOURS
STAT 4451	MATHEMATICAL STATISTICS I	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	3 HOURS
STAT 4452	MATHEMATICAL STATISTICS II	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)