

## MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN PRE-PROFESSIONAL BIOLOGY PROGRAM-PROGRAM YEAR 2016-17

	Term 1		Term 2		Term 3		Term 4		Term 5	
1 <sup>st</sup> Year	MTH 1125	4	AREA II FINE ARTS COURSE	3	ENG 1102/04	3	BIO 1100/LAB	3/1	TROY 1101	1
	ENG 1101/03	3	IS 2241	3	AREA IV SS COURSE	3			AREA II HUM/FA COURSE	3
	TOTAL	7	TOTAL	6	TOTAL	6	TOTAL	4	TOTAL	4
	FALL SEMESTER				Spring Semester				SUMMER SEMESTER	R
	Troy 1101	1	AREA II FINE ARTS COURSE	3	ENG 1102/04	3	AREA II HUM/FA COURSE	3	SELECT COURSES THAT HAVE NOT	
	ENG 1101/03	3	AREA IV SS COURSE	3	BIO 1100/LAB	3/1	IS 2241	3	COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURS	
	MTH 1125	4			AREA IV SS COURSE	3			COURSES TO BE RETAKEN	100
		ТОТ			TOTAL 16					
	Term 1		Term 2		Term 3		Term 4		Term 5	
	BIO 1101/LAB	3/1	CHM 1142/LAB	3/1	MTH 2210	3	AREA II HUM/FA COURSE	3	AREA IV SS COURSE	3
2 <sup>ND</sup>	AREA II LIT COURSE	3	AREA IV HIS COURSE	3	CHM 1143/LAB	3/1	BIO 2220/LAB	3/1		
	TOTAL	7	TOTAL	7	TOTAL	7	TOTAL	7	TOTAL	3
YEAR		FALL	Semester		Spring S		EMESTER		Summer Semester	
TLAK	AREA II LIT COURSE	3	BIO 1101/LAB	3/1	MTH 2210	3	BIO 2220/LAB	3/1	SELECT COURSES THAT HAVE NOT	
	CHM 1142/LAB	3/1			AREA II HUM/FA COURSE	3	FREE ELEC	2	COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURS	
	AREA IV HIS COURSE	3			CHM 1143/LAB	3/1			COURSES TO BE RETAKEN	- 4
	TOTAL 14				TOTAL 16					
	Term 1		Term 2		TERM 3		TERM 4		Term 5	
									Term 5	
	AREA V PHY/LAB	3/1	CHM 3342/LAB	3/1	AREA V PHY/LAB	3/1	BIO 3320/LAB	3/1	Term 5	
200	AREA V PHY/LAB BIO 2229/LAB	3/1	CHM 3342/LAB APPROVED MAJ ELEC	3/1	AREA V PHY/LAB CHM 3343/LAB	3/1	BIO 3320/LAB APPROVED MAJ ELEC	3/1	Term 5	
$3^{ ext{RD}}$	AREA V PHY/LAB		CHM 3342/LAB		AREA V PHY/LAB		BIO 3320/LAB		TERM 5	
3 <sup>rd</sup> Year	AREA V PHY/LAB BIO 2229/LAB TOTAL	3/1	CHM 3342/LAB APPROVED MAJ ELEC	3/1	AREA V PHY/LAB CHM 3343/LAB TOTAL	3/1	BIO 3320/LAB APPROVED MAJ ELEC	3/1	TERM 5  SUMMER SEMESTER	R
	AREA V PHY/LAB BIO 2229/LAB TOTAL	3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL	3/1	AREA V PHY/LAB CHM 3343/LAB TOTAL	3/1	BIO 3320/LAB APPROVED MAJ ELEC TOTAL	3/1	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT	BEEN
	AREA V PHY/LAB BIO 2229/LAB TOTAL	3/1 8 ALL S3	CHM 3342/LAB APPROVED MAJ ELEC TOTAL /1EMESTER	3/1 8	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE	3/1 8 UNG S	BIO 3320/LAB APPROVED MAJ ELEC TOTAL SEMESTER	3/1	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR	BEEN MS OR
	AREA V PHY/LAB BIO 2229/LAB TOTAL FAREA V PHY/LAB	3/1 8 ALL S3 3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL  7/1EMESTER APPROVED MAJ ELEC CHM 3342/LAB	3/1 8	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB	3/1 8 UNG S 3/1	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB	3/1 8 3/1	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM	BEEN MS OR
	AREA V PHY/LAB BIO 2229/LAB TOTAL FAREA V PHY/LAB	3/1 8 ALL S3 3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL  7/1EMESTER APPROVED MAJ ELEC CHM 3342/LAB	3/1 8 3/1 3/1	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB	3/1 8 UNG S 3/1	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB	3/1 8 3/1 3/1	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR	BEEN MS OR
	AREA V PHY/LAB BIO 2229/LAB TOTAL F. AREA V PHY/LAB BIO 2229/LAB	3/1 8 ALL S3 3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL 3/1EMESTER APPROVED MAJ ELEC CHM 3342/LAB TOT	3/1 8 3/1 3/1	AREA V PHY/LAB CHM 3343/LAB TOTAL SPR AREA V PHY/LAB CHM 3343/LAB	3/1 8 UNG S 3/1	BIO 3320/LAB APPROVED MAJ ELEC TOTAL  EMESTER APPROVED MAJ ELEC BIO 3320/LAB TOT	3/1 8 3/1 3/1	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES TO BE RETAKEN	BEEN MS OR
	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB BIO 2229/LAB TERM 1	3/1 8 ALL S3 3/1 3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL  7/1EMESTER APPROVED MAJ ELEC CHM 3342/LAB TOT TERM 2	3/1 8 3/1 3/1 3/1 TAL 16	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3	3/1 8 RING S 3/1 3/1	BIO 3320/LAB APPROVED MAJ ELEC TOTAL  SEMESTER APPROVED MAJ ELEC BIO 3320/LAB TOT  TERM 4	3/1 8 3/1 3/1 7AL 16	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURCES TO BE RETAKEN  TERM 5	BEEN MS OR
YEAR	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB BIO 2229/LAB  TERM 1 APPROVED MAJ ELEC APPROVED MAJ ELEC	3/1 8 ALL S3 3/1 3/1 3/1	CHM 3342/LAB  APPROVED MAJ ELEC  TOTAL  7/1EMESTER  APPROVED MAJ ELEC  CHM 3342/LAB  TOT  TERM 2  APPROVED MAJ ELEC  AREA IV SS COURSE	3/1 8 3/1 3/1 7AL 16	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE	3/1 8 RING S 3/1 3/1 3/1 2 ENT TO	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB  TOT  TERM 4  APPROVED MAJ ELEC  GRADUATE	3/1 8 3/1 3/1 7AL 16	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES TO BE RETAKEN  TERM 5  BIO 4484  APPROVED MAJ ELEC	BEEN MS OR SES OR
YEAR  4 <sup>TH</sup>	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB BIO 2229/LAB  TERM 1 APPROVED MAJ ELEC APPROVED MAJ ELEC TOTAL	3/1 8 ALL S3 3/1 3/1 3/1 3/1 8	CHM 3342/LAB  APPROVED MAJ ELEC  TOTAL  7/1EMESTER  APPROVED MAJ ELEC  CHM 3342/LAB  TOT  TERM 2  APPROVED MAJ ELEC  AREA IV SS COURSE  TOTAL	3/1 8 3/1 3/1 TAL 16	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE	3/1 8 RING S 3/1 3/1 3/1 2 ENT TO 6	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB  TOT  TERM 4  APPROVED MAJ ELEC  GRADUATE  TOTAL	3/1 8 3/1 3/1 7AL 16	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES COURSES TO BE RETAKEN  TERM 5  BIO 4484 APPROVED MAJ ELEC  TOTAL	BEEN MS OR SES OR 1 1 3/1 5
YEAR	AREA V PHY/LAB BIO 2229/LAB TOTAL FAREA V PHY/LAB BIO 2229/LAB  TERM 1 APPROVED MAJ ELEC APPROVED MAJ ELEC TOTAL	3/1 8 ALL S3 3/1 3/1 3/1 8 FALL	CHM 3342/LAB  APPROVED MAJ ELEC  TOTAL  8/1EMESTER  APPROVED MAJ ELEC  CHM 3342/LAB  TOT  TERM 2  APPROVED MAJ ELEC  AREA IV SS COURSE  TOTAL  SEMESTER	3/1 8 3/1 3/1 7AL 16 3/1 3	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPE	3/1 8 8 8 3/1 3/1 3/1 2 ENT TO 6 RING S	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB  TOT  TERM 4  APPROVED MAJ ELEC  GRADUATE  TOTAL  SEMESTER	3/1 8 3/1 3/1 7AL 16	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES TO BE RETAKEN  TERM 5  BIO 4484  APPROVED MAJ ELEC  TOTAL  SUMMER SEMESTER	BEEN MS OR SES OR 1 3/1 5 R
YEAR  4 <sup>TH</sup>	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB BIO 2229/LAB  TERM 1 APPROVED MAJ ELEC APPROVED MAJ ELEC TOTAL  APPROVED MAJ ELEC	3/1 8 ALL S3 3/1 3/1 3/1 8 FALL 3/1	CHM 3342/LAB  APPROVED MAJ ELEC  TOTAL  8/1EMESTER  APPROVED MAJ ELEC  CHM 3342/LAB  TOT  TERM 2  APPROVED MAJ ELEC  AREA IV SS COURSE  TOTAL  SEMESTER  AREA IV SS COURSE	3/1 8 3/1 3/1 7AL 16 3/1 3 7	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPE APPROVED MAJ ELEC	3/1 8 UNG S 3/1 3/1 2 NT TO 6 RING S 3/1	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB  TOT  TERM 4  APPROVED MAJ ELEC  GRADUATE  TOTAL  SEMESTER  BIO 4484	3/1 8 3/1 3/1 7AL 16 3/1 4	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES COURSES TO BE RETAKEN  TERM 5  BIO 4484 APPROVED MAJ ELEC  TOTAL	BEEN MS OR SES OR  1 3/1 5 R BEEN
YEAR  4 <sup>TH</sup>	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB BIO 2229/LAB  TERM 1 APPROVED MAJ ELEC	3/1 8 ALL S3 3/1 3/1 3/1 8 FALL 3/1 3/1	CHM 3342/LAB  APPROVED MAJ ELEC  TOTAL  8/1EMESTER  APPROVED MAJ ELEC  CHM 3342/LAB  TOT  TERM 2  APPROVED MAJ ELEC  AREA IV SS COURSE  TOTAL  SEMESTER  AREA IV SS COURSE  APPROVED MAJ ELEC	3/1 8 3/1 3/1 7AL 16 3/1 3 7	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPE	3/1 8 8 8 3/1 3/1 3/1 2 ENT TO 6 RING S	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB  TOT  TERM 4  APPROVED MAJ ELEC  GRADUATE  TOTAL  SEMESTER  BIO 4484  APPROVED MAJ ELEC	3/1 8 3/1 3/1 7AL 16 3/1 4	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES TO BE RETAKEN  TERM 5  BIO 4484  APPROVED MAJ ELEC  TOTAL  SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES THAT THAT THE SEMESTERS AS PREREQUISITE COURSES THAT THAT THE SEMESTERS AS PREREQUISITE COURSES THAT THE SEMESTERS AS PREREQUISITE COURSES THAT THE SEMESTERS AS PREREQUISITE COURSES THA	BEEN MS OR SES OR 1 3/1 5 R BEEN MS OR
YEAR  4 <sup>TH</sup>	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB BIO 2229/LAB  TERM 1 APPROVED MAJ ELEC APPROVED MAJ ELEC TOTAL  APPROVED MAJ ELEC	3/1 8 ALL S3 3/1 3/1 3/1 8 FALL 3/1 3/1	CHM 3342/LAB  APPROVED MAJ ELEC  TOTAL  8/1EMESTER  APPROVED MAJ ELEC  CHM 3342/LAB  TOT  TERM 2  APPROVED MAJ ELEC  AREA IV SS COURSE  TOTAL  SEMESTER  AREA IV SS COURSE  APPROVED MAJ ELEC	3/1 8 3/1 3/1 7AL 16 3/1 3 7	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPE APPROVED MAJ ELEC	3/1 8 UNG S 3/1 3/1 2 NT TO 6 RING S 3/1	BIO 3320/LAB  APPROVED MAJ ELEC  TOTAL  SEMESTER  APPROVED MAJ ELEC  BIO 3320/LAB  TOT  TERM 4  APPROVED MAJ ELEC  GRADUATE  TOTAL  SEMESTER  BIO 4484  APPROVED MAJ ELEC	3/1 8 3/1 3/1 7AL 16 3/1 4	SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COURSES TO BE RETAKEN  TERM 5  BIO 4484  APPROVED MAJ ELEC  TOTAL  SUMMER SEMESTER  SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM	BEEN MS OR SES OR 1 3/1 5 R BEEN MS OR SES O



## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN PRE-PROFESSIONAL BIOLOGY PROGRAM-PROGRAM YEAR 2016-17

COMPLETE ALL 6 SUB-REQUIREMENTS	(62 HOURS)				
A. AREA I:					
Take the following courses:  Minimum Grade of "C" required  ENG 1101 Comp and Modern English I  ENG 1102 Comp and Modern English II	3 HOURS 3 HOURS				
B. AREA II:					
Take any 1000-2000 level course in literature 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. 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.	3 HOURS 3 HOURS 6 HOURS				
C. AREA III:					
Take the following courses: BIO 1100/L100 Principles Of Biology W/Lab CHM 1142/L142 General Chemistry I W/Lab Take MTH 1125 Calculus I ("C" or better)	4 HOURS 4 HOURS 4 HOURS				
D. AREA IV:					
Take The Following Courses: Take any 1000-2000 level course with a primary focus in history Take any Three 1000 2000 level course 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				
E. AREA V:					
TAKE THE FOLLOWING COURSES: BIO 1101/L101 ORGANISMAL BIOLOGY W/LAB CHM 1143/L143 GENERAL CHEMISTRY II W/LAB IS 2241 COMPUTER CONCEPTS & APPLICATIONS TROY 1101 UNIVERSITY ORIENTATION	4 HOURS 4 HOURS 3 HOURS 1 HOUR				
AREA V CONTINUED:					
TAKE ONE PHYSICS SEQUENCE: PHY 2252/LAB GENERAL PHYSICS I AND PHY 2253/LAB GENERAL PHYSICS II OR PHY 2262/LAB GENERAL PHYSICS I WITH CALCULUS AND PHY 2263/LAB GENERAL PHYSICS II WITH CALCULUS	8 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 STUDENTA 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. WHEN SELECTING COURSEWORK IN AREAS II OR IV. PLEASE CONSULT THIS REQUIREMENTS.



## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN PRE-PROFESSIONAL BIOLOGY PROGRAM-PROGRAM YEAR 2016-17

PRE-PROFESSIONAL BIOLOGY MAJOR						
Minimum 2.0 overall GPA Required						
Take the following courses:						
BIO 2220/L220 PRIN CELL BIOLOGY W/LAB	4 HOURS					
BIO 2229/L229 GENERAL ECOLOGY W/LAB	4 HOURS					
BIO 3320/L320 GENETICS W/LAB	4 HOURS					
BIO 4484 SENIOR SEMINAR IN BIOLOGICAL & ENVIRONMENTAL SCIENCE	1 HOUR					
CHM 3342/L342 ORGANIC CHEMISTRY I W/LAB	4 HOURS					
CHM 3343/L343 ORGANIC CHEMISTRY II W/LAB	4 HOURS					
MTH 2210 APPLIED STATISTICS	3 HOURS					
MAJOR ELECTIVES:						
TAKE 32 SEMESTER HOURS FROM THE COURSES LISTED BELOW:						
BIO 3347/L347 HUMAN ANATOMY AND PHYSIOLOGY I W/LAB	4 HOURS					
BIO 3348/L348 HUMAN ANATOMY AND PHYSIOLOGY II W/LAB	4 HOURS					
BIO 3382/L382 IMMUNOLOGY W/LAB	4 HOURS					
BIO 3386/L386 HEMATOLOGY W/LAB	4 HOURS					
BIO 4414/L414 FOOD MICROBIOLOGY W/LAB	4 HOURS					
BIO 4430/L430 APPLIED GENETICS W/ LAB	4 HOURS					
BIO 4451/L451 TOXICOLOGY W/LAB	4 HOURS					
BIO 4471/L471 PARASITOLOGY W/LAB	4 HOURS					
BIO 4478/L478 CELL BIOLOGY W/LAB	4 HOURS					
BIO 4480/L480 HISTOLOGY W/LAB	4 HOURS					
BIO 4482/L482 MOLECULAR BIOLOGY W/LAB	4 HOURS					
BIO 4485 PRINCIPLES AND METHODS FOR THE LABORATORY ASSISTANT	2 HOURS					
CHM 3352/L352 BIOCHEMISTRY W/LAB	4 HOURS					
FREE ELECTIVES REQUIREMENT						
Take 2 semester hours of free elective credit.						