

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN PRE-PROFESSIONAL BIOLOGY PROGRAM-PROGRAM YEAR 2017-18

	Term 1		TERM 2		Term 3		TERM 4		TERM 5	
1 st 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	DIO 1100/ EID	5/ 1	AREA II HUM/FA COURSE 3	
	TOTAL	7	TOTAL	6	TOTAL	6	TOTAL	4	TOTAL 4	
	FALL SEMESTER				SPRING SEMESTER			SUMMER SEMESTER		
	TROY 1101	1	AREA II FINE ARTS COURSE	3	ENG 1102/04	3	AREA II HUM/FA COURSE	3	SELECT COURSES THAT HAVE NOT BEEN	
	ENG 1101/03	3	AREA IV SS COURSE	3	BIO 1100/LAB	3/1	IS 2241	3	COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR	
	MTH 1125	4			AREA IV SS COURSE	3			COURSES TO BE RETAKEN	
		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	
	AREA II LIT COURSE	3	AREA IV HIS COURSE	3	CHM 1143/LAB	3/1	BIO 2220/LAB	3/1		
2^{ND}	TOTAL	7	TOTAL	7	TOTAL	7	TOTAL	7	TOTAL 3	
YEAR		FALL	SEMESTER		Spf	ung S	SEMESTER		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 BEEN COMPLETED FROM PREVIOUS TERMS OR	
	CHM 1142/LAB	3/1			AREA II HUM/FA COURSE	3	FREE ELEC	2	SEMESTERS AS PREREQUISITE COURSES OR	
	AREA IV HIS COURSE	3			CHM 1143/LAB	3/1			COURSES TO BE RETAKEN	
	TOTAL 14				TOTAL 16					
	Term 1		Term 2		Term 3		TERM 4			
				1					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	
-	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	
$3^{ m RD}$	AREA V PHY/LAB		CHM 3342/LAB		AREA V PHY/LAB		BIO 3320/LAB		TERM 5	
3 rd 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	SUMMER SEMESTER	
	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 F	3/1 8 ALL \$3	CHM 3342/LAB APPROVED MAJ ELEC TOTAL 7/1EMESTER	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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR	
	AREA V PHY/LAB BIO 2229/LAB TOTAL FA 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	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	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR	
	AREA V PHY/LAB BIO 2229/LAB TOTAL FA AREA V PHY/LAB	3/1 8 ALL S3 3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL 3/1EMESTER 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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR	
	AREA V PHY/LAB BIO 2229/LAB TOTAL FA 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 TOTAL	3/1 8 3/1 3/1	AREA V PHY/LAB CHM 3343/LAB TOTAL SPE AREA V PHY/LAB CHM 3343/LAB	3/1 8 UNG S 3/1	BIO 3320/LAB APPROVED MAJ ELEC TOTAL SEMESTER APPROVED MAJ ELEC BIO 3320/LAB TOT	3/1 8 3/1 3/1	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN	
	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 3/1EMESTER APPROVED MAJ ELEC CHM 3342/LAB TOTAL 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 APPROVED MAJ ELEC FREE ELEC	3/1 8 RING 5 3/1 3/1 3/1 2	BIO 3320/LAB APPROVED MAJ ELEC TOTAL SEMESTER APPROVED MAJ ELEC BIO 3320/LAB TOT TERM 4 APPROVED MAJ ELEC	3/1 8 3/1 3/1 7AL 16	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5	
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 3/1EMESTER 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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5 BIO 4484 1 APPROVED MAJ ELEC 3/1	
YEAR 4 TH	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 8	CHM 3342/LAB APPROVED MAJ ELEC TOTAL 3/1EMESTER 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 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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5 BIO 4484 1 APPROVED MAJ ELEC 3/1 TOTAL 5	
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 TOTAL	3/1 8 ALL S3 3/1 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	3/1 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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5 BIO 4484 1 APPROVED MAJ ELEC 3/1 TOTAL 5 SUMMER SEMESTER	
YEAR 4 TH	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 3/1EMESTER 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 7 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 ENT 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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5 BIO 4484 1 APPROVED MAJ ELEC 3/1 TOTAL 5 SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR	
YEAR 4 TH	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 8 FALL 3/1 3/1	CHM 3342/LAB APPROVED MAJ ELEC TOTAL 3/1EMESTER 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	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 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 TOTAL TERM 4 APPROVED MAJ ELEC GRADUATE TOTAL SEMESTER BIO 4484 APPROVED MAJ ELEC	3/1 8 3/1 3/1 7AL 16	SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5 BIO 4484 1 APPROVED MAJ ELEC 3/1 TOTAL 5 SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR	
YEAR 4 TH	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 3/1EMESTER 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 3 3/1	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 ENT TO 6 RING S 3/1	BIO 3320/LAB APPROVED MAJ ELEC TOTAL SEMESTER APPROVED MAJ ELEC BIO 3320/LAB TOTAL 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 BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN TERM 5 BIO 4484 1 APPROVED MAJ ELEC 3/1 TOTAL 5 SUMMER SEMESTER SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR	



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COMPLETE ALL 6 SUB-REQUIREMENTS	(62 HOURS)						
A. AREA I:							
	3 HOURS 3 HOURS						
B. AREA II:							
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 3 HOURS 6 HOURS						
C. AREA III:							
CHM 1142/L142 GENERAL CHEMISTRY I W/LAB	4 HOURS 4 HOURS 4 HOURS						
D. AREA IV:							
	3 hours 9 hours						
E. AREA V:							
CHM 1143/L143 GENERAL CHEMISTRY II W/LAB IS 2241 COMPUTER CONCEPTS & APPLICATIONS	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 DOCUMENT.NOTES.



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PRE-PROFESSIONAL BIOLOGY MAJOR								
		rall GPA Required						
	THE FOLLOW		4 HOURS					
BIC		PRIN CELL BIOLOGY W/LAB	4 HOURS					
BIC BIC		GENERAL ECOLOGY W/LAB GENETICS W/LAB	4 HOURS					
BIC		SENIOR SEMINAR IN BIOLOGICAL & ENVIRONMENTAL SCIENCE	4 HOURS					
		ORGANIC CHEMISTRY I W/LAB	1 HOUR					
		ORGANIC CHEMISTRY II W/LAB	4 HOURS					
	H 2210	APPLIED STATISTICS	4 HOURS 3 HOURS					
IVI I	11 2210	APPLIED STATISTICS	3 HOURS					
MAJOR ELECTIVES:								
Тан	E 32 SEMESTER	HOURS FROM THE COURSES LISTED BELOW:						
BIC	3347/L347	HUMAN ANATOMY AND PHYSIOLOGY I W/LAB	4 HOURS					
BIC	3348/L348	HUMAN ANATOMY AND PHYSIOLOGY II W/LAB	4 HOURS					
BIC	3382/L382	IMMUNOLOGY W/LAB	4 HOURS					
BIC	3386/L386	HEMATOLOGY W/LAB	4 HOURS					
BIC	4414/L414	FOOD MICROBIOLOGY W/LAB	4 HOURS					
BIC	4430/L430	APPLIED GENETICS W/ LAB	4 HOURS					
BIC) 4451/L451	TOXICOLOGY W/LAB	4 HOURS					
BIC) 4471/L471	PARASITOLOGY W/LAB	4 HOURS					
BIC) 4478/L478	CELL BIOLOGY W/LAB	4 HOURS					
BIC	4480/L480	HISTOLOGY W/LAB	4 HOURS					
BIC) 4482/L482	MOLECULAR BIOLOGY W/LAB	4 HOURS					
BIC) 4485	PRINCIPLES AND METHODS FOR THE LABORATORY ASSISTANT	2 HOURS					
CH	M 3352/L352	BIOCHEMISTRY W/LAB	4 HOURS					
FREE ELECTIVES REQUIREMENT								
Take 2 semester hours of free elective credit.								