

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN PRE-PROFESSIONAL BIOLOGY PROGRAM-PROGRAM YEAR 2015-16

| | 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 | | | AREA II HUM/FA COURSE | 3 |
| | TOTAL | 7 | TOTAL | 6 | TOTAL | 6 | TOTAL | 4 | TOTAL | 4 |
| | FALL SEMESTER | | | | Spring Semester | | | | SUMMER SEMESTEI | 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 BEEN | |
| | ENG 1101/03 | 3 | AREA IV SS COURSE | 3 | BIO 1100/LAB | 3/1 | IS 2241 | 3 | COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR | |
| | MTH 1125 | 4 | the section of the section | | AREA IV SS COURSE | 3 | | | COURSES TO BE RETAKEN | 100 |
| | | ТОТ | | | TOT | OTAL 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 | | 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 COUR | |
| | 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 | | Term 5 | |
| | I ERM I | | | | | | | | 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 | 1400 |
| | 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 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 SEMESTEI | 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 SEMESTEI 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 SPR | 3/1 8 UNG S | BIO 3320/LAB APPROVED MAJ ELEC TOTAL SEMESTER | 3/1 | SUMMER SEMESTEI | 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 SPR 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 SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERA | 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 SPR 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 SEMESTEI 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 SEMESTER APPROVED MAJ ELEC BIO 3320/LAB TOT | 3/1 8 3/1 3/1 | SUMMER SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN | BEEN MS OR |
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| 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 3/1 3 | AREA V PHY/LAB CHM 3343/LAB TOTAL SPR 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 SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERN SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN TERM 5 BIO 4484 APPROVED MAJ ELEC | MS OR ASSES OR 1 1 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 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 SPR 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 SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERN SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN TERM 5 BIO 4484 APPROVED MAJ ELEC TOTAL | SEEN MS OR ASSES OR A |
| 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 SPR AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPR | 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 SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN TERM 5 BIO 4484 APPROVED MAJ ELEC TOTAL SUMMER SEMESTEI | SBEEN MS OR ASSES 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 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 | AREA V PHY/LAB CHM 3343/LAB TOTAL SPR AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPR APPROVED MAJ ELEC | 3/1 8 8 ING 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 SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERN SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN TERM 5 BIO 4484 APPROVED MAJ ELEC TOTAL | BEEN MS OR USES OR 1 3/1 5 R |
| 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 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 SPR AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPR | 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 SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN TERM 5 BIO 4484 APPROVED MAJ ELEC TOTAL SUMMER SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR | BEEN MS OR USES OR I I I I I I I I I I I I I I I I I I |
| 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 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 | AREA V PHY/LAB CHM 3343/LAB TOTAL SPR AREA V PHY/LAB CHM 3343/LAB TERM 3 APPROVED MAJ ELEC FREE ELEC FILE YOUR INTE TOTAL SPR APPROVED MAJ ELEC | 3/1 8 8 ING 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 APPROVED MAJ ELEC | 3/1 8 3/1 3/1 7AL 16 3/1 4 | SUMMER SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM SEMESTERS AS PREREQUISITE COUR COURSES TO BE RETAKEN TERM 5 BIO 4484 APPROVED MAJ ELEC TOTAL SUMMER SEMESTEI SELECT COURSES THAT HAVE NOT COMPLETED FROM PREVIOUS TERM | BEEN MS OR USES OR 1 3/1 5 R BEEN MS OR USES OR |



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| COMPLETE ALL 6 SUB-REQUIREMENTS (6 | 62 HOURS) | | | | | | |
|---|---------------------------------|--|--|--|--|--|--|
| A. AREA I: | | | | | | | |
| | B HOURS B 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 5 HOURS | | | | | | |
| C. AREA III: | | | | | | | |
| CHM 1142/L142 GENERAL CHEMISTRY I W/LAB 4 | HOURS HOURS HOURS | | | | | | |
| D. AREA IV: | | | | | | | |
| | 3 HOURS 9 HOURS | | | | | | |
| E. AREA V: | | | | | | | |
| CHM 1143/L143 GENERAL CHEMISTRY II W/LAB 1S 2241 COMPUTER CONCEPTS & APPLICATIONS 3 | HOURS HOURS HOURS 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 | 3 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 50% OF REQUIRED COURSEWORK MUST BE EARNED AT A SENIOR INSTITUTION. 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 COMPLETED IN SENIOR FIELD(S) OF STUDY. A MINIMUM GPA 0F 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 CONSIDER THIS REQUIREMENT.



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| 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. | 2 Hours | | | | | |