

# TROY UNIVERSITY College of Arts and Sciences Recommended Academic Plan Bachelor of Science in Biology-Program Year 2015-2016

	Term 1		Term 2		TERM 3		TERM 4		Term 5	
1 <sup>st</sup> Year	ENG 1101/03	3	BIO 1100/LAB	3/1	ENG 1102/04	3	BIO 1101/LAB	3/1	TROY 1101	1
	MTH 1125	4			IS 2241	3	AREA IV SS COURSE	3	AREA IV HIS COURSE	3
	TOTAL	7	TOTAL	4	TOTAL	6	TOTAL	7	TOTAL	4
	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER	
	TROY 1101	1	BIO 1100/LAB	3/1	ENG 1102/04	3	AREA II HUM/FA COURSE	3	SELECT COURSES THAT HAVE NO	
	ENG 1101/03	3	AREA IV SS COURSE	3	BIO 1101/LAB	3/1	IS 2241	3	COMPLETED FROM PREVIOUS TEF SEMESTERS AS PREREQUISITE COL	
	MTH 1125	4							OR COURSES TO BE RETAKEN	11111
	TOTAL 15				TOTAL 13					
	TERM 1		TERM 2		TERM 3		TERM 4		Term 5	
2 <sup>ND</sup>	CHM 1142/LAB	3/1	AREA II FINE ARTS COURSE	3	BIO 2220/LAB	3/1	CHM 1143/LAB	3/1	MINOR COURSE	3
	AREA II LIT COURSE	3	AREA IV SS COURSE	3	MTH 2210	3			MINOR COURSE	3
	TOTAL 7		TOTAL 6		TOTAL	7	TOTAL		TOTAL 6	
YEAR	FALL SEMESTER					SPRING SEMESTER			SUMMER SEMESTER	
T EAR	AREA II LIT COURSE	3	AREA II FINE ARTS COURSE	3	MTH 2210	3	BIO 2220/LAB	3/1	SELECT COURSES THAT HAVE NO COMPLETED FROM PREVIOUS TEF	
	CHM 1142/LAB	3/1	AREA IV SS COURSE	3	MINOR COURSE	3	CHM 1143/LAB	3/1	SEMESTERS AS PREREQUISITE COU	
	MINOR COURSE	3							OR COURSES TO BE RETAKEN	
	TOTAL 16				TOTAL 14					
	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5	
	AREA V PHYSICS/LAB	3/1	CHM 3342/LAB	3/1	AREA V PHYSICS/LAB	3/1	CHM 3343/LAB	3/1	REQ_ZOOLOGY ELEC	3/1
0.00	BIO 2229/LAB	3/1	REQ BOTANY ELEC	4	BIO 3320/LAB	3/1				
3 <sup>RD</sup>	TOTAL 8		TOTAL 8		TOTAL 8		TOTAL 4		TOTAL	4
YEAR	FALL SEMESTER						SEMESTER	SUMMER SEMESTER		
	AREA V PHYSICS/LAB	3/1	CHM 3342/LAB	3/1	AREA V PHYSICS/LAB	3/1	BIO 3320/LAB	3/1	SELECT COURSES THAT HAVE NO COMPLETED FROM PREVIOUS TEF	
	BIO 2229/LAB	3/1	REQ BOTANY ELEC	4	CHM 3343/LAB	3/1	REQ ZOOLOGY ELEC	3/1	SEMESTERS AS PREREQUISITE COU	URSES
	TOTAL 16			FAL 16	TOTAL 16			OR COURSES TO BE RETAKEN		
	Term 1		Term 2		Term 3		Term 4		TERM 5	
4 <sup>th</sup> Year	REQ_ECOL/ENV ELEC	3/1	REQ_PHY/CELL/MOL ELEC	3/1	MINOR COURSE	3	AREA IV SS COURSE	3	MINOR COURSE	3
	AREA II HUM/FA COURSE	3	MINOR COURSE	3	APPROVED BIO/LAB ELEC	3/1	MINOR COURSE	3	AREA II HUM/FA	3
	TOTAL	7	TOTAL	7	REMEMBER TO FI TOTAL	ILE YOU	R INTENT TO GRADUATE	6	COURSE	6
	FALL SEMESTER			SPRING SEMESTER				SUMMER SEMESTE	-	
	REQ ECOL/ENV ELEC 3/1		REQ PHY/CELL/MOL ELEC 3/1		MINOR COURSE	3 AREA IV SS COURSE 3 SELECT		SELECT COURSES THAT HAVE NO		
	AREA II HUM/FA COURSE	3	AREA IV HIS COURSE	3	APPROVED BIO/LAB ELEC	3/1	MINOR COURSE	3	COMPLETED FROM PREVIOUS TEF SEMESTERS AS PREREQUISITE COL	
	MINOR COURSE	3			MINOR COURSE	3			OR COURSES TO BE RETAKEN	OK3L3
	REMEMBER TO FILE YOUR INTENT TO GRADUATE TOTAL 17				TOTAL 16					
									TOTAL PROGRAM	A 123



### **COLLEGE OF ARTS AND SCIENCES RECOMMENDED ACADEMIC PLAN BIOLOGY PROGRAM-GENERAL BIOLOGY PROGRAM- PROGRAM YEAR 2015-2016**

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 Are/ 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 A. 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 3 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/L101Organismal Biology W/LabCHM 1143/L143General Chemistry II W/LabIS 2241Computer Concepts & ApplicationsTROY 1101University Orientation	4 HOURS 4 HOURS 3 HOURS 1 HOUR						
<b>AREA V Continued:</b> Take One Physics Sequence: Phy 2252/Lab General Physics I AND Phy 2253/Lab General Physics II Or	8 Hours						
PHY 2262/LAB GENERAL PHYSICS I WITH CALCULUS AND PHY 2263/LAB GENERAL PHYSICS II WITH CALCULUS							
Every reasonable attempt to ensure accuracy has been made. Some courses (such as developmental or pre-requisite courses) are not re degree map. Completion of degree requirements is based on the specific catalog year for each student. A 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.	FLECTED IN THIS						

AT LEAST 22% OF THE CREDIT HOURS REQUIRED FOR THE DEGREE MOST BE COMPLETED IN RESIDENCY WITH TROT 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 ART & 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.

## **UNIVERSITY**<sub>TM</sub> COLLEGE OF ARTS AND SCIENCES RECOMMENDED ACADEMIC PLAN **BIOLOGY PROGRAM-GENERAL BIOLOGY PROGRAM- PROGRAM YEAR 2015-2016**

BIOLOGY MAJOR/GENERAL CONCENTRATION							
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						
BOTANY	(4 HOURS)						
TAKE ONE OF THE FOLLOWING BOTANY COURSES WITH ITS CORRESPONDING LAB:	4 HOURS						
BIO 3325/L325 Plant Form And Function W/Lab	4 HOURS						
BIO 4425 FIELD BOTANY	4 HOURS						
ZOOLOGY:	(4 HOURS)						
TAKE ONE OF THE FOLLOWING ZOOLOGY COURSES WITH ITS CORRESPONDING LAB:	4 HOURS						
BIO 3307/L307 INVERTEBRATE ZOOLOGY W/LAB	4 HOURS						
BIO 3308/L308 VERTEBRATE ZOOLOGY W/LAB	4 HOURS						
BIO 4405/L405 ENTOMOLOGY W/LAB	4 HOURS						
BIO 4420 FIELD VERTEBRATE ZOOLOGY	4 HOURS						
BIO 4445/L445 ICHTHYOLOGY W/LAB	4 HOURS						
BIO 4446/L446 HERPETOLOGY W/LAB	4 HOURS						
BIO 4447/L447 Ornithology W/Lab	4 HOURS						
BIO 4448/L448 MAMMALOGY W/LAB	4 HOURS						
BIO 4471/L471 PARASITOLOGY W/LAB	4 HOURS						
ECOLOGY/ENVIRONMENTAL:	(4 HOURS)						
TAKE ONE OF THE FOLLOWING ECOLOGY/ENVIRONMENTAL COURSES WITH ITS							
CORRESPONDING LAB:	4 HOURS						
BIO 4413/L413 LIMNOLOGY W/LAB	4 HOURS						
BIO 4416/L416 MICROBIAL ECOLOGY W/LAB	4 HOURS						
BIO 4421/L421 POPULATION ECOLOGY W/LAB	4 HOURS						
BIO 4479/L479 Environmental Assessment W/Lab	4 HOURS						
PHYSIOLOGY/CELL/MOLECULAR	(4 HOURS)						
TAKE ONE OF THE FOLLOWING PHYSIOLOGY/CELL/MOLECULAR BIOLOGY COURSES WITH ITS	4 HOURS						
Corresponding Lab:							
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 3372/L372 MICROBIOLOGY 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 4480/L480 HISTOLOGY W/LAB	4 HOURS						
BIO 4482/L482 MOLECULAR BIOLOGY W/LAB	4 HOURS						
MAJOR ELECTIVES:	(16 HOURS						
TAKE 16 ADDITIONAL HOURS OF BIO OR MB COURSES. THE 16 HOURS CHOSEN SHOULD BE Based On Student's Future Plans For Employment, Graduate Or Professional School	J						
NOTE: SPECIALS TOPICS IN BIOLOGY (BIO 4476), GUIDED INDEPENDENT STUDIES AND GUIDED							
INDEPENDENT RESEARCH (BIO 4491/4492/4493/4494) MAY BE TAKEN FOR A MAXIMUM OF 6 HOURS							

#### FREE ELECTIVES REQUIREMENT

TROY

#### TAKE 2 SEMESTER HOURS OF FREE ELECTIVE CREDIT.

(2 HOURS) 2 HOURS

My Degree Map serves as a guide to assist you with the proper sequence and selection of courses. It does not replace your Program Evaluation (available through Trojan Web Express), which depicts the official document used to clear students for graduation. My Degree Map includes the required coursework and suggested sequence of courses for a particular degree program. Every reasonable attempt has been made to ensure accuracy of content. Please keep in mind that some courses, such as developmental or pre-requisite courses, are not reflected in My Degree Map. Completion of degree requirements is based on the specific catalog year under which you were admitted to TROY. Please consult the college catalog, your academic advisor, your specific school, department, or your Program Evaluation for any additional requirements.