

ORAL ROBERTS UNIVERSITY
DEGREE: **Bachelor of Science**
MAJOR: **Biology (BIO)**
MINOR **Biochemistry**

DEGREE PLAN SHEET 2018-2019
Biology and Chemistry Department

TOTAL HOURS REQUIRED 130
Hours in General Education 57
Hours in Major 37
Hours in Cognate 19
Hours in Electives 17

Name _____
Z No. _____ Date _____
Telephone _____ Email _____

COURSE EARNED	COURSE CODE	COURSE TITLE	CREDIT HOURS	COURSE EARNED	COURSE CODE	COURSE TITLE	CREDIT HOURS
FRESHMAN Semester 1				FRESHMAN Semester 2			
_____	*BIO 105	Fundamentals of Biology and Chemistry	3	_____	BIO 112	Introductory Biology II Lecture	3
_____	BIO 111	Introductory Biology I Lecture	3	_____	BIO 112L	Introductory Biology II Laboratory	1
_____	BIO 111L	Introductory Biology I Laboratory	1	_____	BIO 209	Methods in Biotechnology*	1
_____	CHE 111	General Chemistry I Lecture	3	_____	CHE 112	General Chemistry II Lecture	3
_____	CHE 111L	General Chemistry I Laboratory	1	_____	CHE 112L	General Chemistry II Laboratory	1
_____	COMP 102	Composition II	3	_____	COM 101	Oral Communication	3
_____	PRF 070	Swimming Proficiency	0	_____	THE 105	Spirit-Empowered Living II	2
_____	THE 104	Spirit-Empowered Living I	2	_____	HPE 155	Health Fitness	1
_____	GEN 150	Introduction to Whole Person Education	1				
			14				15

* can be taken in semester 3 or 4

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	_____	General Elective	3	_____	BIO _____	Biology Lecture Elective	3
_____	_____	General Elective	1	_____	BIO _____	Biology Laboratory Elective	1
_____	CHE 211	Organic Chemistry I Lecture	3	_____	CHE 212	Organic Chemistry II Lecture	3
_____	CHE 211L	Organic Chemistry I Laboratory	1	_____	CHE 212L	Organic Chemistry II Laboratory	1
_____	BLIT 111	OT Biblical Literature Elective	2	_____	101	Foreign Language	3
_____	MAT 106/201	Trigonometry or Calculus I	3	_____	HUM _____	Humanities Elective	3
_____	HPE _____	HPE Activity	0.5	_____	HIS/GOV _____	Civics Elective	3
_____	GEN _____	General Education Elective	3	_____	HPE _____	HPE Activity	0.5
			16.5				17.5

JUNIOR Semester 5				JUNIOR Semester 6			
_____	PHY 101	General Physics I Lecture	3	_____	BIO 372	Introduction to Biological Research	1
_____	PHY 101L	General Physics I Laboratory	1	_____	PHY 102	General Physics II Lecture	3
_____	MAT 232	Elementary Statistics	3	_____	PHY 102L	General Physics II Laboratory	1
_____	HUM _____	Humanities Elective	3	_____	BIO _____	Biology Elective Lecture	3
_____	BIO _____	Biology Elective Lecture	3	_____	BIO _____	Biology Elective Laboratory	1
_____	BIO _____	Biology Elective Laboratory	1	_____	GEN 301	General Education Elective	3
_____	_____	General Elective	3	_____	COMP 303	Critical Reading and Writing	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			17.5				15.5

SENIOR Semester 7				SENIOR Semester 8			
_____	BIO 499	Senior Paper	3	_____	BIO 451	Biology Seminar	1
_____	_____	Social Science Elective	3	_____	BIO 456	Biomedical Ethics	3
_____	_____	General Elective	3	_____	BIO _____	Biology Elective Lec	3
_____	_____	General Elective	3	_____	BIO _____	Biology Elective Lab	1
_____	_____	General Elective	1	_____	_____	General Elective	3
_____	BIO 312	Ecology Lecture	3	_____	GEN 380/420/434	General Education Elective	3
_____	BIO 312L	Ecology Laboratory	1	_____	BLIT 122	NT Biblical Literature Elective	2
_____	HPE 400	Lifelong Wellness	0.5	_____	HPE _____	HPE Activity	0.5
			17.5				16.5

* Prerequisite for BIO 111/CHE 111 based on ACT/SAT score

** Check with your Advisor

This degree plan sheet is intended to be used as a guide to make academic choices of the courses offered. This does not constitute a contract.

Biology and Chemistry Department
B.S. in Biology (BIO)

2018-2019

General Education			Credit Hours
Introduction to Whole Person Education (GEN 150) - counts as HPE activity			1
Oral Communication (COM 101)			3
Composition (COMP 102, COMP 303)			6
Civics (GOV 101, GOV 103, HIS 110, HIS 111, OR HIS 200)			3
Humanities (HUM 201*, 202*, 203*, 204*, 333; ART 103, 104, 307; DANP 125; DRAM 215, 307; MUS 300)			6
*At least one course must be chosen from courses marked with asterisks			
Foreign Language (101, 102, 203, or 204)			3
Biblical Literature (BLIT 111 and 222 or BIB 222 and 261)			4
General Physics I Lecture and Laboratory (PHY 101)			4
General Physics II Lecture and Laboratory (PHY 102)			4
Theology (THE 104, 105)			4
Quantitative Literacy (MAT 232)			3
Health, Leisure and Sport Sciences (HPE 155, 400; PRF 070) One HPE course per full-time semester at ORU			4
Social Science (SOC 101, 201, 323, PSY 201, SWK 202, MUS 208, BUS 201, FIN 244)			3
Scaffolding Interdisciplinary Courses (GEN 301, 380**, 420**, 434**)			9
**At least one course must be chosen from courses marked with two asterisks			
General Education Total			57
Major			
Introductory Biology Lecture and Laboratory (BIO 111 or 112)			8
Methods in Biotechnology (BIO 209)			1
Introduction to Biological Research (BIO 372)			1
Ecology Lecture and Laboratory (BIO 312)**			4
Biomedical Ethics (BIO 456)			3
Biology Seminar (BIO 451)			1
Research/Senior Paper (BIO 499)			3
**May be replaced by BIO 458 or any AUS courses			
Biology Electives (Choose any four of the following)			16
BIO	310	Microbiology Lecture and Laboratory	
BIO	311	Medical Genetics Lecture and Laboratory	
BIO	411	Molecular Cell Biology Lecture and Laboratory	
BIO	421	General and Comparative Physiology Lecture and Laboratory	
BIO	431	Developmental Biology Lecture and Laboratory	
BIO	457	Principles of Immunology Lecture and Laboratory	
BIO	454	Special Topics Lecture and Laboratory; maximum one course	
Major Total			37
Cognate			
Mathematics (choice of one the following):			3
MAT	106	Trigonometry	3
MAT	201	Calculus	4
General Chemistry Lecture and Laboratory (CHE 111 and 112)			8
Organic Chemistry Lecture and Laboratory (CHE 211 and 212)			8
Cognate Total			19
Minor and/or Electives			
Recommended elective include MAT 202; CHE 300/400/454/457; BIO 259; PHP 100;			17
BIO 200 Cadaver Dissection, PHS 223/224 and any upper division biology course.			
--A biochemistry or chemistry minor may be completed (20 hours)			
--Students planning to pursue advanced degrees in biology should take foreign language for one or two years			
--Elective hours may be used within the major for a concentration in premed/prehealth professions (12 hours)			
Elective Total			17
Degree Total			130