

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

DEGREE PLAN SHEET 2013-2014
Biology and Chemistry Department

TOTAL HOURS REQUIRED 128
 Hours in General Education 55
 Hours in Major 37
 Hours in Cognate 19
 Hours in Electives 17

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

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 112	Introductory Biology II Lab	1
_____	BIO 111	Introductory Biology I Lab	1	_____	BIO 209	Methods in Biotechnology	1
_____	CHE 111	General Chemistry I Lecture	3	_____	CHE 112	General Chemistry II Lecture	3
_____	CHE 111	General Chemistry I Lab	1	_____	CHE 112	General Chemistry II Lab	1
_____	MAT 106/20	Trigonometry or Calculus I	3-4	_____	COM 101	Oral Communication	3
_____	COM 102	Reading and Writing in Liberal Arts	3	_____	GOV 101	American Government	3
_____	PRF 070	Swimming Proficiency	0	_____	HPE 002	Health Fitness II	1
_____	HPE 001	Health Fitness I	1				
_____	GEN 099	Whole Person Assessment	0				16
			15-19				

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	BIO _____	Biology Elective Lecture	3	_____	BIO 312	Ecology or Field Biology Lecture	3
_____	BIO _____	Biology Elective Laboratory	1	_____	BIO 312	Ecology or Field Biology Laboratory	1
_____	CHE 211	Organic Chemistry I Lecture	3	_____	CHE 212	Organic Chemistry II Lecture	3
_____	CHE 211	Organic Chemistry I Lab	1	_____	CHE 212	Organic Chemistry II Laboratory	1
_____	HUM 103	Christian Worldview and Culture	3	_____	HUM _____	Humanities Elective	3
_____	BLIT 110	Survey of Old Testament Literature	3	_____	BLIT 120	Survey of New Testament Literature	3
_____	HPE _____	HPE Activity	0.5	_____	HIS 101	American History	3
			15	_____	HPE _____	HPE Activity	0.5
							17.5

JUNIOR Semester 5				JUNIOR Semester 6			
_____	PHY 101	General Physics I Lecture	3	_____	BIO 372	Introduction to Biological Research	1
_____	PHY 101	General Physics I Lab	1	_____	PHY 102	General Physics II Lecture	3
_____	MAT 332	Biostatistics	3	_____	PHY 102	General Physics II Lab	1
_____	HUM _____	Humanities Elective	3	_____	BIO _____	Biology Elective Lecture	3
_____	THE 103	Spirit-Empowered Living	3	_____	BIO _____	Biology Elective Laboratory	1
_____	BIO _____	Biology Elective Lecture	3	_____	HUM _____	Humanities Elective	3
_____	BIO _____	Biology Elective Laboratory	1	_____	COMP 303	Critical Reading and Writing	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			18				15.5

SENIOR Semester 7				SENIOR Semester 8			
_____	BIO 499	Senior Paper	3	_____	BIO 451	Biology Seminar	1
_____	_____	Social Sciences Elective	3	_____	BIO 456	Bioethics	3
_____	_____	General Elective***	3	_____	_____	General Elective***	3
_____	_____	General Elective***	3	_____	_____	General Elective***	3
_____	BIO _____	Biology Elective Lecture	3	_____	_____	General Elective***	3
_____	BIO _____	Biology Elective Laboratory	1	_____	_____	General Elective***	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			16.5				16.5

* Prerequisite for BIO 111 based on ACT/SAT score

*** Follow recommendations of your advisor. Biochemistry and Chemistry minor are possible choices.

DEGREE PLAN SHEET 2013-2014

Biology and Chemistry Department
Biology (BIO) Major

Total Hours Required: 128

(F)=Fall Semester (S)=Spring Semester

GENERAL EDUCATION REQUIREMENTS				MAJOR REQUIREMENTS						
55 Credit Hours Required				21 Credit Hours Required						
			Credit Hours				Credit Hours			
For the Spirit										
_____	BLIT	110	Survey of Old Testament Literature	3	_____	BIO	111	Introductory Biology I Lecture	3	
_____	BLIT	120	Survey of New Testament Literature	3	_____	BIO	111	Introductory Biology I Laboratory	1	
_____	THE	103	Spirit-Empowered Living	3	_____	BIO	112	Introductory Biology II Lecture	3	
For the Mind										
_____	GEN	099	Whole Person Assessment	0	_____	BIO	112	Introductory Biology II Laboratory	1	
_____	PHY	101	General Physics I Lecture*	3	_____	BIO	209	Methods in Biotechnology	1	
_____	PHY	101	General Physics I laboratory*	1	_____	BIO	312	Ecology Lecture (F)**	3	
_____	PHY	102	General Physics II Lecture*	3	_____	BIO	312	Ecology Laboratory**	1	
_____	PHY	102	General Physics II Laboratory*	1	_____	BIO	372	Introduction to Biological Research (F)	1	
_____	COM	101	Oral Communication	3	_____	BIO	451	Biology Seminar (S)	1	
_____	COMP	102	Reading and Writing in the Liberal Arts	3	_____	BIO	456	Bioethics	3	
_____	COMP	303	Critical Reading and Writing (S Junior Year)	3	_____	BIO	499	Individual Research and Senior Paper (F)	3	
_____	GOV	101	American Government	3						
_____	HIS	101	American History	3	**May be replaced by one of the following field courses (lecture and lab)					
_____	MAT	332	Biostatistics	3	BIO 458 Marine Ecology or AUS course					
_____	HUM	103	Christian Worldview and Culture	3	AUS 302 Limnology					
_____	_____	_____	Humanities Electives (3 required)	9	AUS 303 Ecological Agriculture					
Must choose at least one from the following list:					AUS 304 Global Development and Ecological Sustainability					
HUM 222, 233, 244, 333					AUS 311 Field Botany					
Additional options include:					AUS 312 Insect Biology and Ecology					
HONR 102; HUM 250, 255, 260, 270; COMP 101					AUS 322 Aquatic Biology					
_____	_____	_____	Social Sciences Elective (1 required)	3	AUS 359 Marine Mammals					
FIN 244; PSY 201; SOC 201					AUS 377 Marine Invertebrates					
					AUS 471 Conservation Biology					
					AUS 482 Restoration Ecology					
					Courses with AUS prefix are offered only at AUSABLE Institute					
					MAJOR ELECTIVES					
					16 Credit Hours Required					
					Choose four from the following courses:					
					16					
					_____ BIO 310 Microbiology (lecture and lab) (F)					4
					_____ BIO 311 Genetics (lecture and lab) (S)					4
					_____ BIO 411 Molecular Cell Biology (lecture and lab) (F)					4
					_____ BIO 421 General and Comparative Physiology (lecture and lab) (F)					4
					_____ BIO 431 Developmental Biology (lecture and lab) (S)					4
					_____ BIO 454 Special Topics (lecture and lab)					4
					_____ BIO 457 Principles of Immunology (lecture and lab) (S)					4