

ORAL ROBERTS UNIVERSITY  
DEGREE: **Bachelor of Science**  
MAJOR: **Biology**  
CONCENTRATION: **Health Professions**  
**(Physician Assistant, Physical Therapy, Pharmacy, etc.)**

DEGREE PLAN SHEET 2021-2022  
**Biology and Chemistry Department**

TOTAL HOURS REQUIRED 120  
Hours in General Education 57  
Hours in Major 35  
Hours in Concentration 12  
Hours in Cognate 16

Name \_\_\_\_\_  
ID \_\_\_\_\_  
Telephone \_\_\_\_\_ Date \_\_\_\_\_  
Advisor \_\_\_\_\_ Email \_\_\_\_\_

SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS
<b>FRESHMAN Semester 1</b>				<b>FRESHMAN Semester 2</b>			
_____	BIO 105	Essentials of Biology*	1	_____	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	_____	CHE 112	General Chemistry II Lecture	3
_____	CHE 111	General Chemistry I Lecture	3	_____	CHE 112L	General Chemistry II Laboratory	1
_____	CHE 111L	General Chemistry I Laboratory	1	_____	COM 101	Oral Communication	3
_____	COMP 102	Composition II	3	_____	HPE 155	Health Fitness	1
_____	GEN 150	Intro. to Whole Person Education	1	_____	THE 105	Spirit-Empowered Leadership	2
_____	PRFH 070	Swimming Proficiency	0	_____	PHP 100	Prehealth Seminar	0.5
_____	THE 104	Spirit-Empowered Living	2				
			15				17.5

Every student must take a "GO" course

<b>SOPHOMORE Semester 3</b>				<b>SOPHOMORE Semester 4</b>			
_____	BIO _____	Biology Elective Lecture	3	_____	BIO _____	Biology Elective Lecture	3
_____	BIO _____	Biology Elective Laboratory	1	_____	BIO _____	Biology Elective Laboratory	1
_____	CHE 211	Organic Chemistry I Lecture	3	_____	BIO 259	Medical Terminology	2
_____	CHE 211L	Organic Chemistry I Laboratory	1	_____	CHE 212	Organic Chemistry II Lecture	3
_____	BIO 209	Methods in Biotechnology	1	_____	CHE 212L	Organic Chemistry II Laboratory	1
_____	SOC _____	Social Science Elective	3	_____	HUM _____	Humanities Elective	3
_____	BLIT 111	Christian Life Through Bib Eng I	2	_____	BLIT 122	Christian Life Through Bib Eng II	2
_____	HPE _____	HPE activity	0.5	_____	HPE _____	HPE Activity	0.5
			14.5				15.5

<b>JUNIOR Semester 5</b>				<b>JUNIOR Semester 6</b>			
_____	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
_____	PHS 223	Human Anatomy Lecture	3	_____	PHY 102L	General Physics II Laboratory	1
_____	PHS 223L	Human Anatomy Laboratory	1	_____	PHS 224	Human Physiology Lecture	3
_____	BIO 200	Human Cadaver Dissection	1	_____	PHS 224L	Human Physiology Laboratory	1
_____	MAT 232	Elementary Statistics	3	_____	HUM _____	Hum Electives	3
_____	101	Foreign Language	3	_____	HIS/GOV _____	Civics Elective	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			15.5	_____	PHP 300	Prehealth Seminar II	0.5
							16

**Prepare for Health Profession School Standardized Exam**  
Take standardized exam before or at the end of junior year

**Prepare Health Profession School Applications and Submit during the Summer**

<b>SENIOR Semester 7</b>				<b>SENIOR Semester 8</b>			
_____	BIO 499	Research and Senior Paper	3	_____	BIO 451	Biology Seminar	1
_____	COMP 303	Critical Reading and Writing	3	_____	GEN 356	Biomedical Ethics	3
_____	BIO _____	Biology Elective Lecture	3	_____	BIO _____	Biology Elective Lecture	3
_____	BIO _____	Biology Elective Laboratory	1	_____	BIO _____	Biology Elective Laboratory	1
_____	BIO 312	Ecology Lecture	3	_____	GEN _____	380/420/434 Gen. Education Elec.	3
_____	BIO 312L	Ecology Laboratory	1	_____	GEN 301	General Education Elective	3
_____	HPE 400	Lifelong Wellness	0.5	_____	HPE _____	HPE Activity	0.5
			14.5				14.5

\* Co-requisite for BIO 111

See pre-health advisor for guidance on careers in healthcare.

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.

**MEET WITH YOUR ACADEMIC ADVISOR EVERY SEMESTER TO MAKE SURE YOU ARE ON TRACK.**

**General Education (Grade of "D" or better required)**

	<b>Credit Hours</b>
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) *GOV 103 can fulfill the GO course requirement	3
Humanities (HUM 201*, 202*, 203*, 204*, 333; ART 103, 104, 307; DANP 125; DRAM 215, 304; MUS 130)	6
*At least one course must be chosen from courses marked with asterisks	
Foreign Language (101, 102, 203, or 204) Any language course can fulfill the GO course requirement	3
Biblical Literature (BLIT 111 and 122 or BIB 222 and BIB 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)	4
Social Science (SOC 101, 201, 323, PSY 201, SWK 202, MUS 208, BUS 201, FIN 244)	3
Scaffolding Interdisciplinary Course (GEN 356)	3
Two Scaffolding Interdisciplinary Courses (GEN 301, 304, 307, 314, 333, 343, 355, 375, 380, 415**, 420**, 430**, 434**) **At least one course must be chosen from courses marked with two asterisks.	6
<i>Every student must take a "GO" course</i>	
<b>General Education Total</b>	<b>57</b>

**Major (Grade of "C" or better required)**

BIO	105	Essentials of Biology	1
BIO	111	Introductory Biology I Lecture and Laboratory	4
BIO	112	Introductory Biology II Lecture and Laboratory	4
BIO	209	Methods in Biotechnology	1
BIO	372	Introduction to Biological Research	1
BIO	312	Ecology Lecture and Laboratory**	4
BIO	451	Biology Seminar	1
BIO	499	Research/Senior Paper	3
<b>Biology Electives (Choose four of the following, include one indicated course*)</b>			<b>16</b>
BIO	310	Microbiology Lecture and Laboratory	
BIO	311	Medical Genetics Lecture and Laboratory*	
BIO	410	Medical Parasitology	
BIO	411	Molecular Cell Biology Lecture and Laboratory*	
BIO	420	Molecular Virology Lecture and Laboratory	
BIO	431	Developmental Biology Lecture and Laboratory	
BIO	457	Principles of Immunology Lecture and Laboratory	
BIO	454	Special Topics (May be taken only once.)	

\*\*May be replaced by BIO 458 Marine Ecology or AUS courses

**Major Total** **35**

**Cognate (Grade of "D" or better required)**

CHE	111 & 112	General Chemistry I & II Lecture and Laboratory	8
CHE	211 & 212	Organic Chemistry I & II Lecture and Laboratory	8
			<b>16</b>

**Concentration (Grade of "C" or better is required)**

PHS	223	Human Anatomy Lecture and Laboratory	4
PHS	224	Human Physiology Lecture and Laboratory	4
PHP	100	Prehealth Seminar	0.5
PHP	300	Prehealth Seminar II	0.5
BIO	200	Human Cadaver Dissection	1
BIO	259	Medical Terminology	2
<b>Concentration Total</b>			<b>12</b>

**Degree Total** **120**