

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

DEGREE PLAN SHEET 2022-2023  
**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				14.5
			15	<b>Every student must take a "GO" course</b>			

<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.**

**B.S. in Biology**                      **Biology and Chemistry Department: BIO**  
 Concentration: Health Professions (HPC)

**2022-2023**  
**120 Hours**

**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) 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 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
<b>Every student must take a "GO" course</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 312	Ecology Lecture and Laboratory**	4
BIO 372	Introduction to Biological Research	1
BIO 451	Biology Seminar	1
BIO 499	Research/Senior Paper	3

**Biology Electives (Choose four of the following, include one indicated course\*)**

BIO 310	Microbiology Lecture and Laboratory	1
BIO 311	Medical Genetics Lecture and Laboratory*	1
BIO 410	Medical Parasitology	1
BIO 411	Molecular Cell Biology Lecture and Laboratory*	1
BIO 420	Molecular Virology Lecture and Laboratory	1
BIO 431	Developmental Biology Lecture and Laboratory	1
BIO 454	Special Topics (May be taken only once.)	1
BIO 457	Principles of Immunology Lecture and Laboratory	1

\*\*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

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

BIO 200	Human Cadaver Dissection	1
BIO 259	Medical Terminology	2
PHP 100	Prehealth Seminar	0.5
PHP 300	Prehealth Seminar II	0.5
PHS 223	Human Anatomy Lecture and Laboratory	4
PHS 224	Human Physiology Lecture and Laboratory	4

**Concentration Total**                      **12**

**Degree Total**                      **120**