

ORAL ROBERTS UNIVERSITY
 DEGREE: **Bachelor of Science**
 MAJOR: **Medical Molecular Biology (MMB)**
 MINOR: Biochemistry
 CONCENTRATION: Premedicine

DEGREE PLAN SHEET 2018-2019
Biology and Chemistry Department

TOTAL HOURS REQUIRED 127
 Hours in General Education 57
 Hours in Major 38
 Hours in Minor 20
 Hours in Cognate 12

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 111	Introductory Biology I Lecture	3	_____	BIO 112	Introductory Biology II Lecture	3
_____	BIO 111L	Introductory Biology I Lab	1	_____	BIO 112L	Introductory Biology II Lab	1
_____	CHE 111	General Chemistry I Lecture	3	_____	BIO 209	Methods in Biotechnology*	1
_____	CHE 111L	General Chemistry I Lab	1	_____	CHE 112	General Chemistry II Lecture	3
_____	COMP 102	Composition II	3	_____	CHE 112L	General Chemistry II Lab	1
_____	PRF 070	Swimming Proficiency	0	_____	HPE 155	Health Fitness	1
_____	GEN 150	Intro. to Whole Person Education	1	_____	THE 105	Spirit-Empowered Living II	2
_____	PHP 100	Prehealth Seminar	1	_____	COM 101	Oral Communication	3
_____	THE 104	Spirit-Empowered Living I	2				15
			15				

* can be taken in semester 3 or 4

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	BIO 310	Microbiology Lecture	3	_____	BIO _____	Biology Elective Lecture	3
_____	BIO 310L	Microbiology Lab	1	_____	BIO _____	Biology Elective Lab	1
_____	CHE 211	Organic Chemistry I Lecture	3	_____	CHE 212	Organic Chemistry II Lecture	3
_____	CHE 211L	Organic Chemistry I Lab	1	_____	CHE 212L	Organic Chemistry II Lab	1
_____	BLIT 111	Christ Life Through Bib Engage I	2	_____	HIS/GOV _____	Civics Elective	3
_____	HPE _____	HPE Activity	0.5	_____	_____ 101	Foreign language	3
_____	PSY 201	Principles of Psychology	3	_____	HPE _____	HPE Activity	0.5
_____	PSY 338	Psychology of Abnormal Behavior	3	_____	PSY 305	Physiological Psychology	3
			16.5				17.5

JUNIOR Semester 5				JUNIOR Semester 6			
_____	PHY 101	General Physics I Lecture/lab	3	_____	BIO 372	Introduction to Biological Research	1
_____	PHY 101L	General Physics I Lab	1	_____	PHY 102	General Physics II Lecture	3
_____	BIO _____	Biology Elective Lecture	3	_____	PHY 102L	General Physics II Lab	1
_____	BIO _____	Biology Elective Lab	1	_____	BIO _____	Biology Elective Lecture	3
_____	HUM _____	Humanities Elective	3	_____	BIO _____	Biology Elective Lab	1
_____	GEN 301	General Education Elective	3	_____	BLIT 122	Christ Life Through Bib Engage II	2
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
_____	PSY 301	Developmental Psychology	3	_____	PSY _____	Psychology Elective	3
			17.5				14.5

MCAT is HIGHLY recommended to be taken at the end of junior year, April-August

SENIOR Semester 7				SENIOR Semester 8			
_____	BIO 499	Research and Senior Paper	3	_____	BIO 451	Biology Seminar	1
_____	COMP 303	Critical Reading and Writing	3	_____	BIO 456	Biomedical Ethics	3
_____	CHE 459	Biochemistry Lecture	3	_____	HUM _____	Humanities Elective	3
_____	CHE 459L	Biochemistry Lab	1	_____	BIO _____	Biology Elective Lecture	3
_____	GEN 380/420/434	General Education Elective	3	_____	BIO _____	Biology Elective Lab	1
_____	HPE 400	Lifelong Wellness	0.5	_____	GEN _____	General Education Elective	3
_____	MAT 232	Elementary Statistics	3	_____	HPE _____	HPE Activity	0.5
			16.5				14.5

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 Medical Molecular Biology (MMB) 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, 304; MUS 3	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 122 or BIB 222 and 261)	4
General Physics I Lecture and Laboratory (PHY 101 or PHY 111)	4
General Physics II Lecture and Laboratory (PHY 102 or PHY 112)	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 and 112) (F/S)	8
Methods in Biotechnology (BIO 209) (F/S)	1
Introduction to Biological Research (BIO 372) (F/S)	1
Research/Senior Paper (BIO 499) (F)	3
Biology Seminar (BIO 451) (S)	1
Prehealth Seminar (PHP 100) (F/S)	1
Biomedical Ethics (BIO 456)	3
Microbiology Lecture and Laboratory (BIO 310)*	4
Choose four from the following:	16
BIO 312 Human Ecology Lecture and Laboratory (F/S)	
BIO 410 Medical Parasitology Lecture and Laboratory (F)	
BIO 431 Developmental Biology Lecture and Laboratory (F)	
BIO 457 Principles of Immunology Lecture and Laboratory (S)	
BIO 454 Special Topics Lecture and Laboratory**	
BIO 311 Medical Genetics Lecture and Laboratory (F/S)*	
BIO 411 Molecular Cell Biology Lecture and Laboratory (F)*	
* recommended for student desiring a premedical emphasis	
**Can be taken only once	
Major Total	38
Biochemistry Minor	
General Chemistry Lecture and Laboratory (CHE 111 and CHE 112) (F/S)	8
Organic Chemistry Lecture and Laboratory (CHE 211 and CHE 212) (F/S)	8
Biochemistry Lecture and Laboratory (CHE 459) (F/S)	4
Minor Total	20
Cognate	
Developmental Psychology (PSY 301) (F/S)	3
Physiological Psychology (PSY 305) (S)	3
Psychology of Abnormal Behavior (PSY 338) (F/S)	3
Psychology elective	3
Cognate Total	12
Degree Total	127