ORAL ROBERTS UNIVERSITY DEGREE: Bachelor of Science MAJOR: Biomedical Chemistry (BMCH) MINOR: Biology Name	DEGREE PLAN SHEET 2018-2019 Biology and Chemistry Department	TOTAL HOURS REQUIRED Hours in General Education Hours in Major Hours in Cognate Hours in Minor	129 5 3- 1- 2
Z No.	Date	Hours in Electives	;
Telephone	Email		

COURSE EARNED		E	COURSE TITLE	CREDIT HOURS	COURSE EARNED	COURSE CODE	COURSE TITLE	CREDIT HOURS
	CHE CHE BIO BIO	111 111L 111 111L	FRESHMAN Semester 1 General Chemistry I Lecture General Chemistry I Laboratory Introductory Biology I Lecture Introductory Biology I Laboratory	3 1 3 1		COMP 102 BIO 112	Introductory Biology II Lecture	3 1 3 3
	PRF GEN COM THE	070 150 101 104	Swimming Proficiency Intro. to Whole Person Education Oral Communication Spirit-Empowered Living I	0 1 3 2 14		BIO 112L HPE 155 PHP 100 THE 105	Introductory Biology II Laboratory Health Fitness Prehealth Seminar Spirit-Empowered Living II	1 1 2 15
	CHE CHE PHY PHY BIO BIO BLIT HPE MAT	211 211L 101 101L 310 310L 111	SOPHOMORE Semester 3 Organic Chemistry I Lecture Organic Chemistry I Laboratory General Physics I Lecture General Physics I Laboratory Microbiology Lecture Microbiology Lecture Microbiology Laboratory Christian Life Through Biblical Engagement HPE Activity Calculus II	3 1 3 1 3 1 2 0.5 4		CHE 300 CHE 300L PHY 102	Quantitative Analysis Laboratory General Physics II Lecture General Physics II Laboratory	3 1 2 2 3 1 2 0.5 1 15.5
	CHE CHE CHE BIO BIO BIO PSY HPE	400 400L 290 ———————————————————————————————————	JUNIOR Semester 5 Chemical Instrumentation Lecture Chemical Instrumentation Laboratory Major Elective Methods in Biotechnology Biology Field Elective Lecture Biology Field Elective Lab Principles of Psychology HPE Activity	2 2 3 1 3 1 3 0.5		CHE 449 CHE COMP 303 PSY HPE HUM GEN Prepare for	JUNIOR Semester 6 Chemistry Research Major Elective Critical Reading and Writing Psychology Elective HPE Activity Humanities Elective General Education Elective Summer Internship Program	1 3 3 3 0.5 3 3 0 16.5
CHEMIST	TRY INTE	RNSHIP D	URING THE SUMMER					
	CHE CHE GEN	303 499 ——————————————————————————————————	SENIOR Semester 7 Physical Chemistry I Lecture Individual Research and Senior Paper (F) Civics Elective General Education Elective Foreign Language Lifelong Wellness	3 3 3 3 0.5		CHE 303L CHE 452 CHE MAT 232 HUM GEN BIO HPE	SENIOR Semester 8 Physical Chemistry I Laboratory Seminar Major Elective Quantitative Literacy Humanities Elective General Education Elective Biology Elective Lecture and Lab HPE Activity	1 1 3 3 3 3 4 0.5

^{***}See pre-med advisor and recommendations on back page.

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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 Biomedical Ch	emistry (BMCH) - Minor: Biology	2018-2019 Credit Hours		
Introduction to Whole Person Education (GEN 150) - counts as HPE activity				
Oral Communication (COM 101)				
Composition (COMP 10		6		
	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 300)				
	ne course must be chosen from courses marked with asterisks	0		
Foreign Language (101		3 4		
Biblical Literature (BLIT 111 and 122 or BIB 222 and BIB 261) General Chemistry I Lecture and Lab (CHE 111)				
•	ecture and Lab (CHE 111)	4 4		
Theology (THE 104, 10		4		
Quantitative Literacy (N	, , , , , , , , , , , , , , , , , , ,	3		
	ort Sciences (HPE 155, 400; PRF 070) One HPE course per full-time semester at ORU	4		
Social Science (SOC 1	01, 201, 323, PSY 201, SWK 202, MUS 208, BUS 201, FIN 244)	3		
	nary Courses (GEN 301, 380**, 420**, 434**, 456)	9		
**At least one course must be chosen from courses marked with two asterisks				
	General Education Total	57		
Major	LILL of an an II of antice (OUE 044 or LOUE 040)	0		
	d II Lecture and Laboratory (CHE 211 and CHE 212)	8		
•	ecture and Laboratory (CHE 300) <i>(S)</i> ecture and Laboratory (CHE 303) <i>(F),</i> (CHE 303L) <i>(S)</i>	4 4		
-	on Lecture and Laboratory (CHE 400) (<i>F)</i>	4		
Chemistry Research (C		1		
Seminar (CHE 452) (S		1		
	d Senior Paper (CHE 499) (F)	3		
	ollowing: CHE 459 Biochem. Lec; CHE 475 Biochem. II-Onco. Chem.; CHE 458 Internship	6		
Choose one from the fo	ollowing: CHE 304 Phys. Chem. II; CHE 456 Inorganic; CHE 471 Structure & Bonding	3		
	Major Total	34		
Cognate				
Human Cadaver Disse	ction (BIO 200)	1		
Calculus II (MAT 202)	D 400)	4		
Prehealth Seminar (PH	ure and Laboratory (PHY 101) (F)	1 4		
-	ure and Laboratory (PHY 102) (S)	4		
Conordi i inyoloo ii Ecol	Cognate Total	14		
Electives				
Choice of one of the f	ollowing electives	3		
PSY 212	Social Psychology			
PSY 301	Developmental Psychology			
PSY 305	Physiological Psychology			
PSY 338	Psychology of Abnoral Behavior			
Biology Minor	later direction . Diele militare transport de la branchem .	4		
BIO 111 BIO 112	Introductory Biology I Lecture and Laboratory	4		
BIO 290	Introductory Biology II Lecture and Laboratory Methods in Biotechnology	4 1		
Choice of one of the fol		4		
BIO 312	Human Ecology Lecture and Laboratory	·		
BIO 458	Marine Ecology Lecture and Laboratory			
BIO	Biology field course Lecture and Laboratory			
AUS	Au Sable field course Lecture and Laboratory			
Choice of two of the fol	=	8		
BIO 310	Microbiology Lecture and Laboratory** (F)			
BIO 311	Medical Genetics Lecture and Laboratory** (S)			
BIO 411	Molecular Cell Biology Lecture and Laboratory** (F)			
BIO 421 General and Comparative Physiology Lecture and Laboratory** BIO 431 Developmental Biology Lecture and Laboratory** (S)				
BIO 454	Special Topics Lecture and Laboratory**			
BIO 454	Principles of Immunology Lecture and Laboratory** (S)			
BIO	Biology elective (300-level or above)			
	Minor Total	21		
	Degree Total	129		
**Students majoring in	Riomedical Chemistry must choose from courses marked with asterisks			

^{**}Students majoring in Biomedical Chemistry must choose from courses marked with asterisks.