

ORAL ROBERTS UNIVERSITY
 DEGREE: Bachelor of Science
 MAJOR: Biomedical Chemistry (BMC)
 CONCENTRATION: Premedicine

DEGREE PLAN SHEET 2011-2012
Biology and Chemistry Department

TOTAL HOURS REQUIRED 128
 Hours in general education 56
 Hours in major 25
 Hours in concentration 9
 Hours in cognate 12
 Hours in general electives 5
 Biology minor 21

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			
_____	CHE 111	General Chemistry I Lecture	3	_____	CHE 112	General Chemistry II Lecture	3
_____	CHE 111	General Chemistry I Laboratory	1	_____	CHE 112	General Chemistry II Lab	1
_____	MAT 201	Calculus I	4	_____	MAT 202	Calculus II (Cognate)	4
_____	COMP 102	Reading and Writing in Liberal Arts	3	_____	BIO 112	Introductory Biology II Lecture	3
_____	BIO 111	Introductory Biology I Lecture	3	_____	BIO 112	Introductory Biology II Laboratory	1
_____	BIO 111	Introductory Biology I Laboratory	1	_____	COM 101	Oral Communication	3
_____	HPE 001	Health Fitness I	1	_____	HPE 002	Health Fitness II	1
_____	PRF 070	Swimming Proficiency	0				16
_____	GEN 099	Whole Person Assessment	0				
_____	PHP 100	Pre-Health Professions Seminar (Semester 1 or 2)	1				
			17				

ORU Summer and Online Courses are available.

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	CHE 211	Organic Chemistry I Lecture (F)	3	_____	CHE 212	Organic Chemistry II Lecture (S)	3
_____	CHE 211	Organic Chemistry I Laboratory (F)	1	_____	CHE 212	Organic Chemistry II Lab (S)	1
_____	PHY 101	General Physics I Lecture*	3	_____	CHE 300	Quantitative Analysis Lecture (S)	2
_____	PHY 101	General Physics I Laboratory	1	_____	CHE 300	Quantitative Analysis Lab (S)	2
_____	BIO ___	Biology Elective Lecture	3	_____	PHY 102	General Physics II Lecture*	3
_____	BIO ___	Biology Elective Laboratory	1	_____	PHY 102	General Physics II Laboratory	1
_____	BLIT 110	Survey of Old Testament Literature	3	_____	BLIT 120	Survey of New Testament Literature	3
_____	HUM 101	Introduction to Humanities	3	_____	HUM ___	Humanities Elective	3
_____	HPE ___	HPE Activity	0.5	_____	HPE ___	HPE Activity	0.5
			18.5				18.5

*Physics III and II

ORU Summer and Online Courses are available.

JUNIOR Semester 5				JUNIOR Semester 6			
_____	CHE 303	Physical Chemistry I Lecture (F)	3	_____	CHE 303	Physical Chemistry I Lab (S)	1
_____	CHE 400	Chemical Instrumentation Lecture (F)	2	_____	CHE 449	Chemistry Research (S)	1
_____	CHE 400	Chemical Instrumentation Lab (F)	2	_____	CHE ___	Concentration Elective	3
_____	THE 103	Spirit-Empowered Living	3	_____	BIO ___	Biology Elective Lecture	3
_____	CHE 459	Biochemistry Lecture	3	_____	BIO ___	Biology Elective Laboratory	1
_____	CHE 459	Biochemistry Lab	1	_____	COMP 303	Critical Reading and Writing	3
_____	HPE ___	HPE Activity	0.5	_____	HUM ___	Humanities Elective	3
_____	BIO 370	Methods in Biotechnology	1	_____	HPE ___	HPE Activity	0.5
_____	Prepare for Summer Internship Program		0				15.5
			15.5				

Biochemistry is recommended prior to taking the MCAT April-August.

CHEMISTRY INTERNSHIP DURING THE SUMMER

SENIOR Semester 7				SENIOR Semester 8			
_____	CHE 499	Individual Research and Senior Paper (F)	3	_____	CHE 452	Seminar (S)	1
_____	BIO ___	Biology Field Course Lecture	3	_____	CHE ___	Concentration Elective	3
_____	BIO ___	Biology Field Course Laboratory	1	_____	HUM ___	Humanities Elective	3
_____	HIS 101	American History	3	_____	___ ___	General Elective*	3
_____	___ ___	Social Sciences Elective	3	_____	GOV 101	Government	3
_____	HPE ___	HPE Activity	0.5	_____	HPE ___	HPE Activity	0.5
			13.5				13.5

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

KEY

(F) Offered in Fall Only
 (S) Offered in Spring Only

**Biomedical Chemistry
Premedice Concentration**

F=Fall Semester S=Spring Semester

*F=Alternating Fall Semesters

*S=Alternating Spring Semesters

GENERAL EDUCATION REQUIREMENTS				MAJOR REQUIREMENTS				
56 Credit Hours Required				25 Credit Hours Required				
			Credit Hours				Credit Hours	
For the Spirit								
_____	BLT	110	Survey of Old Testament Literature	3	_____	CHE 211	Organic Chemistry I Lecture (F)	3
_____	BLT	120	Survey of New Testament Literature	3	_____	CHE 211	Organic Chemistry I Laboratory (F)	1
_____	THE	103	Spirit-Empowered Living	3	_____	CHE 212	Organic Chemistry II Lecture (S)	3
For the Mind								
_____	GEN	099	Whole Person Assessment	0	_____	CHE 212	Organic Chemistry II Laboratory (S)	1
_____	CHE	111	General Chemistry I Lecture	3	_____	CHE 300	Quantitative Analysis Lecture (S)	2
_____	CHE	111	General Chemistry I laboratory	1	_____	CHE 300	Quantitative Analysis Laboratory (S)	2
_____	CHE	112	General Chemistry II Lecture	3	_____	CHE 303	Physical Chemistry I Lecture (F)	3
_____	CHE	112	General Chemist Laboratory	1	_____	CHE 303	Physical Chemistry I Laboratory (S)	1
_____	CHE	112	General Chemistry II Honors Lab	1	_____	CHE 400	Chemical Instrumentation Lecture (F)	2
_____	COM	101	Oral Communication	3	_____	CHE 400	Chemical Instrumentation Laboratory (F)	2
_____	COMP	102	Reading and Writing in the Liberal Arts	3	_____	CHE 449	Chemistry Research (S)	1
_____	COMP	303	Critical Reading and Writing (S Junior Year)	3	_____	CHE 452	Seminar (S)	1
_____	GOV	101	American Government	3	_____	CHE 499	Individual Research and Senior Paper (F)	3
_____	HIS	101	American History	3	PREMEDICINE CONCENTRATION			
_____	MAT	201	Calculus I	4	9 Credit Hours			
_____	HUM	101	Introduction to Humanities	3	Choose one or two from the following courses:			
_____	HUM	310	Christian Worldview and Culture	3	Organic			
_____	_____	_____	Humanities Electives (2 required)	6	_____	CHE 454	Recombinant DNA (S)	3
			HUM 222		_____	CHE 455	Oncological Chemistry (S)	3
			HUM 233		_____	CHE 459	Biochemistry Lecture (F)*	3
			HUM 244		_____	CHE 459	Biochemistry Laboratory (F)*	1
			HUM 233		_____	CHE 473	Synthesis (F)	3
			HONR 102		Choose one or two from the following courses:			
_____	_____	_____	Social Sciences Elective (1 required)	3	Analytical/Inorganic/Physical			
			BUS 101 Principles of Economics (F)		_____	CHE 304	Physical Chemistry II (S)	3
			FIN 244 Personal Financial Planning		_____	CHE 456	Inorganic Chemistry (S)	3
			MUS 208 Music in World Cultures		_____	CHE 474	Environmental Analysis (F)	3
			PSY 201 Introduction to Psychology		*Highly recommended by medical schools.			
			SOC 101 Introduction to Sociology		COGNATE REQUIREMENTS			
			SOC 201 Marriage and the Family		12 Credit Hours Required			
			SOC 323 Child and Family in the Social Context		_____	MAT 202	Calculus II	4
			SWK 202 Introduction to Social Work		Choose one from the following pairs:			
For the Body								
Freshman								
_____	HPE	001	Health Fitness I	1	_____	PHY 101	General Physics I Lec and Lab (F)	4
_____	HPE	002	Health Fitness II	1	_____	PHY 102	General Physics II Lec and Lab (S)	4
_____	PRF	070	Swimming Course or Proficiency		or			
Sophomore								
_____	_____	_____	HPE Activity	0.5	_____	PHY 111	Physics I Lec and Lab—Calculus Based (S)	4
_____	_____	_____	HPE Activity	0.5	_____	PHY 112	Physics II Lec and Lab—Calculus Based (F)	4
Junior								
_____	_____	_____	HPE Activity	0.5				
_____	_____	_____	HPE Activity	0.5				
Senior								
_____	_____	_____	HPE Activity	0.5				
_____	_____	_____	HPE Activity	0.5				
GENERAL ELECTIVES								
5 Credit Hours Required								
Seek your Advisor's advice.								
Select courses reflect requirements of your future medical school.								
_____	PHP 100	Pre-Health Professions Seminar		1				
_____	Biostatistics, Bioethics, Human Cadaver Dissection, Human Anatomy, or Human Physiology are recommended for medical school.			4				