

ORAL ROBERTS UNIVERSITY  
 DEGREE: **Bachelor of Science**  
 MAJOR: **Chemistry (CHE)**

DEGREE PLAN SHEET 2017-2018  
**Biology and Chemistry Department**

TOTAL HOURS REQUIRED 128  
 Hours in General Education 56  
 Hours in Major 37  
 Hours in Cognate 18  
 Hours in Electives 17

Name \_\_\_\_\_  
 Z No. \_\_\_\_\_  
 Telephone \_\_\_\_\_

COURSE EARNED	COURSE CODE	COURSE TITLE	CREDIT HOURS	COURSE EARNED	COURSE CODE	COURSE TITLE	CREDIT HOURS
<b>FRESHMAN Semester 1</b>				<b>FRESHMAN Semester 2</b>			
_____	CHE 111	General Chemistry I Lecture	3	_____	CHE 112	General Chemistry II Lecture	3
_____	CHE 111L	General Chemistry I Laboratory	1	_____	CHE 112L	General Chemistry II Laboratory	1
_____	MAT 201	Calculus I	4	_____	MAT 202	Calculus II	4
_____	COMP 102	Composition II	3	_____	PHY 111	Physics I Lecture*	3
_____	_____	General Elective	3	_____	PHY 111L	Physics I Laboratory*	1
_____	PRF 070	Swimming Proficiency	0	_____	COM 101	Oral Communication	3
_____	GEN 150	Whole Person Assessment	1	_____	HPE 001	Health Fitness I	1
			<u>15</u>				<u>16</u>

\*May substitute PHY 101 (lecture and laboratory)

<b>SOPHOMORE Semester 3</b>				<b>SOPHOMORE Semester 4</b>			
_____	CHE 211	Organic Chemistry I Lecture	3	_____	CHE 212	Organic Chemistry II Lecture	3
_____	CHE 211L	Organic Chemistry I Laboratory	1	_____	CHE 212L	Organic Chemistry II Laboratory	1
_____	PHY 112	Physics II Lecture*	3	_____	CHE 300	Quantitative Analysis Lecture	2
_____	PHY 112L	Physics II Laboratory*	1	_____	CHE 300L	Quantitative Analysis Laboratory	2
_____	HUM 103	Christian Worldview and Culture	3	_____	MAT 211	Differential Equations	3
_____	HIS 101	American History	3	_____	CSC 111	Introduction to Computing	3
_____	BLIT 110	Survey of Old Testament Literature	3	_____	BLIT 120	Survey of New Testament Literature	3
_____	HPE 002	Health Fitness II	0.5	_____	HPE _____	HPE Activity	0.5
			<u>17.5</u>				<u>17.5</u>

\*May substitute PHY 102 (lecture and lab)

<b>JUNIOR Semester 5</b>				<b>JUNIOR Semester 6</b>			
_____	CHE 303	Physical Chemistry I Lecture	3	_____	CHE 303L	Physical Chemistry I Laboratory	1
_____	CHE 400	Chemical Instrumentation Lecture	2	_____	CHE 304	Physical Chemistry II Lecture	3
_____	CHE 400L	Chemical Instrumentation Laboratory	2	_____	CHE 449	Chemistry Research	1
_____	THE 103	Spirit-Empowered Living	3	_____	GOV 101	American Government	3
_____	_____	Social Science Elective	3	_____	COMP 303	Critical Reading and Writing	3
_____	HUM _____	Humanities Elective	3	_____	HUM _____	Humanities Elective	3
_____	HPE _____	HPE Activity	0.5	_____	_____	General Elective	3
			<u>16.5</u>	_____	HPE _____	HPE Activity	0.5
							<u>17.5</u>

**CHEMISTRY INTERNSHIP DURING THE SUMMER**

<b>SENIOR Semester 7</b>				<b>SENIOR Semester 8</b>			
_____	CHE 499	Individual Research and Senior Project	3	_____	CHE 452	Seminar	1
_____	CHE _____	Major Elective	3	_____	CHE 456	Inorganic Chemistry	3
_____	CHE _____	Major Elective	3	_____	HUM _____	Humanities Elective	3
_____	_____	General Elective	3	_____	_____	General Elective	3
_____	_____	General Elective	3	_____	_____	General Elective	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			<u>15.5</u>				<u>13.5</u>

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 Chemistry (CHE)**

**2017-2018**

**General Education**

**Credit Hours**

Whole Person Assessment (GEN 150)	1
General Chemistry I and II Lecture and Laboratory	8
Oral Communication (COM 101)	3
English (COMP 102, COMP 303)	6
American History (HIS 101)	3
Christian Worldview and Culture (HUM 103)	3
Humanities Electives (Choice of three of the following: HUM 222*, 233*, 244*, 333*, 250, 255, 260, 270; COMP 101)	9
American Government (GOV 101)	3
Mathematics (MAT 201)	4
Biblical Literature (BLIT 110, 120)	6
Theology (THE 103)	3
Health, Leisure and Sport Sciences (HPE 001, 002; PRF 070) One HPE course per full-time semester	4
Social Science Electives (Choice of one of the following): FIN 244; PSY 201; SOC 201; MUS 208; SWK 202; SOC 101; SOC 323; BUS 201	3

**General Education Total** 56

**Major**

Organic Chemistry I Lecture and Laboratory (CHE 211)	4
Organic Chemistry II Lecture and Laboratory (CHE 212)	4
Quantitative Analysis Lecture and Laboratory (CHE 300) (S)	4
Physical Chemistry I Lecture and Laboratory (CHE 303) (F), (CHE 303L) (S)	4
Physical Chemistry II Lecture (CHE 304) (every other S)	3
Chemical Instrumentation Lecture and Laboratory (CHE 400) (F)	4
Chemistry Research (CHE 449) (S)	1
Seminar (CHE 452) (S)	1
Inorganic Chemistry (CHE 456) (S)	3
Individual Research and Senior Paper (CHE 499) (F)	3
<b>Choose two from the following courses:</b>	6
Oncological Chemistry (CHE 455) (S)	3
Biochemistry Lecture (CHE 459)	3
Medicinal Chemistry (CHE 473) (F)	3

**Major Total** 37

**Cognate**

Calculus II (MAT 202)	4
Differential Equations (MAT 211) (S)	3
Introduction to Computing (CSC 111)	3
Choose <b>one pair</b> from the following courses:	8
General Physics I Lecture and Laboratory (PHY 101) (F)	4
General Physics II Lecture and Laboratory (PHY 102) (S)	4
OR	
Physics I Lecture and Laboratory (PHY 111)	4
Physics II Lecture and Laboratory (PHY 112)	4

**Cognate Total** 18

**General Electives**

Seek your Advisor's advice. 17

**Degree Total** 128