

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

DEGREE PLAN SHEET 2019-2020
Biology and Chemistry Department

TOTAL HOURS REQUIRED 123
 Hours in General Education 58
 Hours in Major 33
 Hours in Cognate 18
 Hours in Electives 11

Name _____
 Z No. _____
 Telephone _____

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 111L	General Chemistry I Laboratory	1	_____	CHE 112L	General Chemistry II Laboratory	1
_____	COMP 102	Composition II	3	_____	COM 101	Oral Communication	3
_____	MAT 201	Calculus I	4	_____	PHY 111	Physics I Lecture*	3
_____	PRF 070	Swimming Proficiency	0	_____	PHY 111L	Physics I Laboratory*	1
_____	GEN 150	Intro. to Whole Person Education	1	_____	HPE 155	Health Fitness	1
_____	THE 104	Spirit-Empowered Living I	2	_____	_____	Elective	4
			<u>14</u>	_____	THE 105	Spirit-Empowered Living II	<u>2</u>
							18

*May substitute PHY 101 (lecture and laboratory)

SOPHOMORE Semester 3				SOPHOMORE Semester 4			
_____	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
_____	BLIT 111	Christ Life Through Bib Engage I	2	_____	MAT 211	Differential Equations	3
_____	MAT 202	Calculus II	4	_____	CSC 111	Introduction to Computing	3
_____	HPE _____	HPE Activity	0.5	_____	BLIT 122	Christ Life Through Bib Engage II	2
			<u>14.5</u>	_____	HPE _____	HPE Activity	<u>0.5</u>
							16.5

*May substitute PHY 102 (lecture and lab)

JUNIOR Semester 5				JUNIOR Semester 6			
_____	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 Lab	2	_____	CHE 449	Chemistry Research	1
_____	_____	Social Science Elective	3	_____	HUM _____	Humanities Elective	3
_____	HUM _____	Humanities Elective	3	_____	COMP 303	Critical Reading and Writing	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
_____	_____	Foreign Language	3	_____	GEN _____	Gen Ed electives	3
			<u>16.5</u>				<u>14.5</u>

CHEMISTRY INTERNSHIP DURING THE SUMMER

SENIOR Semester 7				SENIOR Semester 8			
_____	CHE 499	Ind. Research and Senior Paper	3	_____	CHE 452	Seminar	1
_____	_____	Elective	3	_____	CHE 456	Inorganic Chemistry	3
_____	GEN _____	required SIC Elective**	3	_____	GEN _____	SIC Elective	3
_____	CHE _____	Chemistry Major	3	_____	GEN _____	SIC Elective	3
_____	CHE _____	Chemistry Major	3	_____	HPE _____	HPE Activity	0.5
_____	HPE 400	Lifelong Wellness	0.5	_____	_____	Civics Elective	3
			<u>15.5</u>				<u>13.5</u>

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) - COMP 303 is SIC elective	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; ML	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 Chemistry I Lecture and Lab (CHE 111)	4
General Chemistry II Lecture and Lab (CHE 112)	4
Theology (THE 104, 105)	4
Quantitative Literacy (Quantitative Analysis Lec and Lab (CHE 300) (S) approved course substitution)	4
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
SIC General Education Electives	9
**one SIC course must be GEN 415 (F) Sci & Chr Phil or HON 102 (S) Phil of Sci the remainder can be GEN 380, 420, 434, or similar future SIC courses	
General Education Total	58
Major	
Organic Chemistry I Lecture and Laboratory (CHE 211)	4
Organic Chemistry II Lecture and Laboratory (CHE 212)	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
Choose two from the following courses:	6
Biochemistry II-Oncological Chemistry (CHE 475) (S)	3
Biochemistry Lecture (CHE 459)	3
Medicinal Chemistry (CHE 473)	3
Major Total	33
Cognate	
Calculus II (MAT 202)	4
Differential Equations (MAT 211) (S)	3
Introduction to Computing (CSC 111)	3
Choose one pair of 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
Electives	11
Degree Total	123