



**Biochemistry (BIOC)**

**First Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
ENGL201	Composition and Research Skills	3	ENGL151	
CHEM200L	General Chemistry Lab	1	ENGL101-CHEM160	CHEM200
CHEM200	General Chemistry	3	ENGL101-CHEM160	CHEM200L
CSCI200	Introduction to Computers	3	ENGL051	
BIOL200	General Biology I	3	ENGL051-ENGL101-BIOL160	BIOL200L
BIOL200L	General Biology I Lab	1	ENGL051-ENGL101	BIOL200
<b>Total</b>		<b>17</b>		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
ENGL251	Communication Skills	3	ENGL201	
CHEM250	Organic Chemistry I	3	ENGL051-ENGL101-CHEM200	
BIOL275	Cell and Molecular Biology	3	BIOL200	BIOL275L
BMED205	Biophysics	3	BIOL200	
BIOL385L	Microbiology Lab	1	ENGL051-ENGL101	BIOL385
BIOL385	Microbiology	3	ENGL051-ENGL101-BIOL200	BIOL385L
BIOL275L	Cell and Molecular Biology Lab	1	BIOL200	BIOL275
<b>Total</b>		<b>17</b>		

**Second Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
CHEM260	Analytical Chemistry	3	CHEM200	CHEM260L
CHEM260L	Analytical Chemistry Lab	1	CHEM200	CHEM260
CHEM300	Organic Chemistry II	3	ENGL051-ENGL101-CHEM250	
BIOL365	Genetics	3	BIOL275	
CHEM300L	Organic Chemistry Lab	2	ENGL051-ENGL101-CHEM250	
BIOC300	Biochemistry I (General)	4	BIOL200-CHEM250	
<b>Total</b>		<b>16</b>		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
MATH245	Statistics for Health Sciences	3	ENGL051-ENGL101-ENGL151	
CULT200	Introduction to Arab - Islamic Civilization	3		
BIOL360	Human Physiology & Anatomy	4	BIOL200	BIOL360L
BIOC350	Biochemistry II (Intermediary)	3	BIOC300	BIOC350L
BIOC350L	Biochemistry II Lab	1		BIOC350
BIOL360L	Human Physiology & Anatomy Lab	1		BIOL360
<b>Total</b>		<b>15</b>		

**Third Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
	Major Elective	3		
CHEM310	Physical Chemistry I	3	CHEM200	
BIOC450	Advanced Lab Techniques in Biochemistry	2		BIOC445
BIOC445	Biotechnology	3	BIOL365-BIOC300	
BIOC400	Biochemistry III (Protein Structure & Function)	3	BIOC350	
	General Education Electives	3		
<b>Total</b>		<b>17</b>		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
BIOC375	Enzymology	3	BIOC350	
	Major Elective	3		
	General Education Electives	3		
BMED450L	Clinical Chemistry Lab	1		BMED450
BMED450	Clinical Chemistry	3	BIOC300	BMED450L
BIOL490	Seminar	1		BIOC485
BIOC485	Modern Topics in Biochemistry	3	BIOC350	
<b>Total</b>		<b>17</b>		

**Major Elective Courses**

Code	Title	Credits	Prerequisites	Corequisites
BIOC390	Bioinformatics	3		
BIOC480	Molecular Genetics	3	ENGL151	
BIOC495	Biochemistry Project	3	ENGL101-CHEM160	CHEM200
BIOL315	Animal Behaviour	3	ENGL101-CHEM160	CHEM200L
BIOL415	Endocrinology	3	ENGL051	
BIOL425	Immunology	3	ENGL051-ENGL101-BIOL160	BIOL200L
BIOL485	Neurobiology	3	ENGL051-ENGL101	BIOL200
BMED435	Carcinogenesis and Oncology	3	ENGL201	
CHEM465	Environmental Chemistry	3	ENGL051-ENGL101-CHEM200	
FDSC370	Food Chemistry	3	BIOL200	BIOL275L
FDSC435	Food Toxicants and Additives	3	BIOL200	
FDSC475	Food Engineering	3	ENGL051-ENGL101	BIOL385
NUTR250	Basic Nutrition	3	ENGL051-ENGL101-BIOL200	BIOL385L