

Bachelor of Science (B.Sc.) in Chemistry

FIRST YEAR [32] credit hours			
Fall Semester			
Course #	Course Title	Cr Hrs	Prerequisite
CHEM 101	General Chemistry I	3	None
CHEM 103	Exptl. General Chemistry I	1	CHEM 101 conc.
MATH 101	Calculus I	3	None
ARAB 101	Arabic Language I	3	None
ENGL 101	English Language I	3	None
DAWA 111	Islamic Culture	3	None
Total Credit Hours in Semester [16]			
Spring Semester			
Course #	Course Title	Cr Hrs	Prerequisite
CHEM 102	General Chemistry II	3	CHEM 101 & CHEM 104 conc.
CHEM 104	Exp. General Chemistry II	1	CHEM 103 & CHEM 102 conc.
Math 102	Calculus II	3	MATH 101
ARAB 200	Arabic Language (II)	3	ARAB 100
ENGL 203	English Language (II)	3	ENGL 101
BIOL 101	Biology I	3	
Total Credit Hours in Semester [16]			

SECOND YEAR [31] credit hours			
Fall Semester			
Course #	Course Title	Cr Hrs	Prerequisite
CHEM 211	Organic Chemistry I	4	CHEM101 & CHEM103
CHEM 231	Analytical Chemistry (I)	2	CHEM 101
CHEM 234	Exp. Analytical Chemistry	1	CHEM 103 + CHEM 231 Conc.
CMPS 101	Introduction to Computer Science	3	None
PHYS 101	General Physics I	3	
0000000	Minor Course 1	3	
Total Credit Hours in Semester [16]			
Course #	Course Title	Cr Hrs	Prerequisite
CHEM 212	Organic Chem II	3	CHEM 211
CHEM 213	Exp. Organic Chem	1	CHEM 212 or Conc.
CHEM 221	Inorganic Chemistry I (biology)	3	CHEM 101
CHEM 222	Exp. Inorganic Chemistry	1	CHEM 221 Conc.
PHYS 102	General Physics II	3	PHYS 101
PHYS 103	General Physics Lab.	1	PHYS 101+ PHYS 102 Conc.
0000000	Minor Course 2	3	

Total Credit Hours in Semester [15]			
THIRD YEAR [30] credit hours			
Fall Semester			
Course #	Course Title	Cr Hrs	Prerequisite
0000000	Core Curriculum	3	None
CHEM 241	Physical Chemistry I (biology+Eng.)	3	CHEM 102 & CHEM 242
CHEM 242	Exp. Physical Chemistry I (Eng.)	1	CHEM 102, 104 & conc. 241
CHEM 331	Analytical Chemistry (II) (biomed)	3	CHEM231& CHEM 234
CHEM 351	Basic Biochemistry	3	CHEM 212 or CHEM 209
CHEM 352	Experimental Biochemistry	1	CHEM 351 conc.
0000000	Minor Course 3	3	
Total Credit Hours in Semester [17]			
Spring Semester			
Course #	Course Title	Cr Hrs	Prerequisite
0000000	Core Curriculum	3	
CHEM 341	Physical Chemistry II (Eng.)	3	CHEM 241
CHEM 442	Exp. Physical Chemistry II	1	CHEM 341 Conc.
CHEM000	CHEM Elective	3	
0000000	Minor Course 4	3	
Total Credit Hours in Semester [13]			