

**Degree Plan for B.Sc. in Chemistry (Revised Version Feb2019)**

<b>Minimum No. of Credits for the Chemistry Degree Plan = 136</b>		
<b>Course Title</b>	<b>No. of Credits</b>	<b>Pre-requisites</b>
<b>University Requirements = 24 Credits</b>		
ARAB100 Arabic Language I	3	
ARAB101 Arabic Language II	3	ARAB100
COMP101 Computer Skills	3	COMP-A,COMP-B, Digital Literacy
ENGL150 English Language I	3	
ENGL152 English Language II	3	ENGL150
ENGL155 Communication Skills	3	ENGL152
HIST150 Islamic Civilization	3	
MNGT100 Entrepreneurship: Creativity and Innovation	3	
<b>University Electives = 3 Credits</b> <b>Student shall choose from available courses offered by all Colleges of the University</b>		
<b>College Requirements = 16 Credits</b>		
BIOL101 General Biology I	4	
CHEM101 General Chemistry I	4	
MATH116 Pre-Calculus	4	
PHYS101 General Physics I	4	MATH116
<b>College Electives = 8 Credits</b> <b>Student shall choose from the following courses:</b>		
COMP151 Introduction to Algorithms	4	COMP101
ERSC101 Introduction to Geology I	4	CHEM101
MATH211 Calculus I	4	MATH116
STAT101 Introduction to Statistics I	4	
<b>Department Requirements = 55 credits</b>		
CHEM102 General Chemistry II	4	CHEM101
CHEM211 Inorganic Chemistry I	4	CHEM102
CHEM241 Analytical Chemistry I	4	CHEM102
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CHEM251 Inorganic Chemistry II	4	CHEM211
CHEM255 Physical Chemistry I	3	CHEM102
CHEM265 Organic Chemistry I	4	CHEM101
CHEM275 Organic Chemistry II	4	CHEM265
CHEM325 Organic Chemistry Laboratory	3	CHEM275
CHEM327 Industrial Chemistry	3	CHEM241
CHEM332 Physical Chemistry II	3	PHYS101, CHEM255
CHEM334 Biochemistry	3	BIOL101
CHEM341 Analytical Chemistry II	3	CHEM241
CHEM342 Instrumental Chemical Analysis	3	CHEM341
CHEM 398 Petroleum Chemistry	3	CHEM265
CHEM488 Computers in Chemistry	1	COMP101
CHEM499 Graduation Project	6	CHEM341, CHEM325

<b>Department Electives = 30 credits</b>		
<b>Student shall choose from available courses offered by the Department</b>		
CHEM243 Special Topics	2	CHEM241
CHEM280 Lipid Chemistry	3	CHEM275
CHEM281 Chemistry for Teachers	3	CHEM241
CHEM350 Environmental Chemistry	3	CHEM241, CHEM251
CHEM395 Food Chemistry	3	CHEM275, CHEM334
CHEM 396 Nuclear Chemistry	3	CHEM251
CHEM 399 Polymer Chemistry	3	CHEM325
CHEM 407 Organometallic Chemistry	3	CHEM275
CHEM422 Identification of Organic Compounds	3	CHEM325
CHEM432 Biophysical Chemistry	3	CHEM334 Corequisite:CHEM332
CHEM400Material Chemistry	3	CHEM332
CHEM440 Marine Chemistry	3	CHEM275, CHEM334
CHEM445 Chemistry of Natural Products	3	CHEM275, CHEM334
CHEM460 Chemistry of Cosmetics	3	CHEM325, CHEM334
CHEM470 Clinical Chemistry	3	CHEM334
CHM475 Chemistry of Forensic Science	3	CHEM342
CHEM490 Advanced Laboratory	3	CHEM341