



# ACADEMIC PROGRAM CURRICULUM STRUCTURE FORM

**Degree:** Bachelor of Education in Secondary Education  
With Concentrations in **Chemistry**

**2017**

## 1. Overall Curriculum Structure

**Table 1.1** *Overall Curriculum Structure*

Curriculum Component	Total Number of	
	Courses	Credit Hours
Core Curriculum Requirements	11	33
Major Requirements	10	36
Concentration Requirements	15	45
Free Electives (if applicable)	2	6
Other Packages: _____		
Total:		120

## 2. Detailed Curriculum Structure

### 2.1. Core Curriculum Requirements, ( 33 CH)

For each package, students must take specific number of credit hours from the list of courses listed for that package as detailed in the following table.

**Table 2.1** Core Curriculum Requirements

	Package Title	Course Id.	Course Title	Nb. of Credit Hours per Course	Nb. of Contact Hours		Pre-Requisites	Nb. of Credit Hours per package
					Theo.	Lab.		
<b>Common Package</b> 15 credit hours	<b>Language I sub-package (12 CH)</b>							
	Arabic Language	ARAB 100	Arabic Language I	3				6
		ARAB 200	Arabic Language II	3				
	English Language	ENGL 202	ENGLISH Language I Post Foundation	3				6
		ENGL 203	ENGLISH Language II Post Foundation	3				
Islamic Culture	DAWA 111	Islamic Culture	3				3	
<b>3 credits</b>	Humanities – Fine Art		Students must complete 3 Credit Hours from courses listed in the Qatar and Gulf History Sub-package which is part of the Humanities/Fine Arts package.	3				3
<b>3 credits</b>	Social – Behavioral Science		Courses in CCP defined Social/Behavioral Sciences package.	3				3
<b>3 credits</b>	Natural Sciences – Mathematics		Students selecting the Concentration area in <b>Chemistry</b> concentration areas must complete one course from the list of courses defined in the CCP Natural Science/Mathematics package.	3				3
<b>3 credits</b>	General Knowledge		Students selecting the <b>Chemistry</b> concentration area must complete this package requirements by completing 3 CH in courses listed in the CCP defined General Knowledge package.	3				3
<b>3 credits</b>	General Skills		Students selecting a concentration area in <b>Chemistry</b> must complete this package requirements by completing 3 CH in courses listed in the CCP defined General Skills package.	3				3
<b>Supplemental College/Program</b> <b>3 credits</b>	UNIV 100 Supplemental College		First Year Seminar	3			0	3
<b>Total</b>								<b>33</b>

## 2.2. Major Requirements (36 CH)

Students must complete 30 CH from the courses listed below in addition to completing **6** CH from courses listed in the Methods sub-package related to the concentration area selected by the student.

### 2.2.1. Major Core Requirements Package ( 36 CH)

Course No.	Course Name	No. of hours			Pre -requisite(s): No/Name	Offered Semester
		CH	Theory	Exp.		
EDUC 310	Foundation of Education in Qatar and School Reform	3	3	0		F
EDUC 312	Curriculum & Assessment	3	3	0		S
EDUC 316	Classroom Management	3	3	0	EDUC 312	S
EDUC 317	Inclusive Classrooms	3	3	0		S
EDUC 320×	Human Development	3	3	0		S/F خريف اربيع
EDSE 331	Reading and Writing Across the Curriculum	3	3	0	EDUC 312	S
EDUC 319	Classroom Assessment	3	3	0	EDUC 310, 312 &320, Students must have completed a minimum of 60 CH	F
EDSE 491	Student Teaching in Secondary Education	9	9	All Coursework	EDSE 346 and EDSE 466	S
<b>Methods for Chemistry sub-package</b>						
EDSE 346	Methods I:Instructional Strategies for Chemistry	3	3	Field work	EDSE 331	S
EDSE 466	Methods II: Inquiry and ICT for Chemistry	3	3	Micro teaching	EDSE 346	F

× **Students in the Primary Education Program ONLY must register EDUC 315**

× **Students in the Secondary Education Program ONLY must register EDUC 320**

### 2.3. Concentration Requirements for Chemistry Students (45 CH)

Students must complete a minimum of **45** credit hours by completing the following courses in concentration requirements:

**Table 2.3.1 Chemistry Subject Courses (45 CH)**

**Table 2.3.1 Courses in Concentration Requirements**

Course Id.	Course Title	Nb. of Credit Hours	Nb. of Contact Hours		Course Prerequisites	Course Co-Requisites	Offering Semester(s)
			Theo.	Lab.			
CHEM 101	General Chemistry I	3	3	-	-		F&S
CHEM 102	General Chemistry II	3	3	-	CHEM 101		F&S
CHEM 103	Experimental General Chemistry I	1	-	3	CHEM 101		F&S
CHEM 104	Experimental General Chemistry II	1	-	3	CHEM 103 and CHEM 102		F&S
BIOL 101	Biology I	3	2	1	-		F&S
GEOL 101	Principle of Geology	3	2	2	-		F&S
PHYS 183	Introduction to General Physics	3	3	-	-		-
CHEM 211	Organic Chemistry I	4	3	3	CHEM 101 And CHEM 103		F&S
CHEM 212	Organic Chemistry II	3	3	-	CHEM 211		S
CHEM 221	Inorganic Chemistry I	3	3	-	CHEM 101		F
CHEM 222	Experimental Inorganic Chemistry	1	-	3	CHEM 221		F
CHEM 231	Analytical Chemistry I	2	-	-	CHEM 101		F&S
CHEM 234	Experimental Analytical Chemistry	1	-	3	CHEM 103 And CHEM 231		F&S
CHEM 241	Physical Chemistry I	3	3	-	CHEM 102		F&S
CHEM 242	Experimental Physical Chemistry I	1	3	-	CHEM 104 And CHEM 241		F&S
CHEM 321	Inorganic Chemistry II	3	3	-	CHEM 221		F or S
CHEM 331	Analytical Chemistry II	3	3	-	CHEM 231 And CHEM 234		S
CHEM 351	Basic Biochemistry	3	3	-	CHEM 212 or CHEM 209		F&S
CHEM 352	Experimental Basic Biochemistry	1	-	3	CHEM 351		F&S

## 2.4 Major Electives ( 6 CH)

Students must take 6 credit hours from the list of courses listed in the following table.

**Table 2.4** *Courses in Free Electives*

Course Id.	Course Title	Nb. of Credit Hours	Nb. of Contact Hours		Course Prerequisites	Course Co-Requisites	Offering Semester(s)
			Theo.	Lab.			
EDUC 100	Photography	3	3				-
EDUC 200	Education and Societal Problems	3	3				F&S
EDUC 201	Research Methodology	3	3				F&S
EDUC 203	Family Relationships	3	3				F&S
EPSY 201	Introduction to Psychology	3	3				F&S
EPSY 205	Social Psychology	3	3				F&S

**UNDERGRADUATE CATALOG**  
**Approved 2012-2013 Degree Requirements**  
**Suggested Study Plan**  
**Bachelor of Education in Secondary Education**  
**Chemistry Concentration**

FIRST YEAR [33] credit hours)				SECOND YEAR [33] credit hours)			
Fall Semester				Fall Semester			
Course #	Course Title	Cr Hrs.	Pre-requisite	Course #	Course Title	Cr Hrs.	Pre-requisite
	Core Requirement	3			Core Requirement	3	
	Core Requirement	3			Core Requirement	3	
	Core requirement	3			Core Requirement	3	
EDUC 310	Foundation of Education & School Reform	3		CHEM 211	Organic Chemistry I	4	
CHEM 101	General Chemistry I	3		CHEM 231	Analytical Chemistry 1	2	
				CHEM 104	Exp. General Chemistry II	1	
Total Credit Hours in Semester [15]				Total Credit Hours in Semester [16]			
Spring Semester				Spring Semester			
Course #	Course Title	Cr Hrs.	Pre-requisite	Course #	Course Title	Cr Hrs.	Pre-requisite
	Core Requirement	3			Core Requirement	3	
	Core Requirement	3		EDSE 331	Reading and Writing Across the Curriculum	3	EDUC 312
EDUC 312	Curriculum & Assessment	3		EDUC 317	Inclusive Classroom	3	
EDUC 320 <del>x</del>	Human Development	3		GEOG 101	Principles of Geology	3	
CHEM 102	General Chemistry II	3		PHYS 183	Intro. to General Physics	3	
CHEM 103	Experimental General Chemistry	1		CHEM 234	Exp. Analytical Chemistry	1	
Total Credit Hours in Semester [16]				Total Credit Hours in Semester [16]			

THIRD YEAR [33] credit hours)				FOURTH YEAR [33] credit hours)			
Fall Semester				Fall Semester			
Course #	Course Title	Cr Hrs.	Pre-requisite	Course #	Course Title	Cr Hrs.	Pre-requisite
					<b>Core Requirement</b>	<b>3</b>	
	<b>Core Requirement</b>	<b>3</b>		<b>EDSE 466</b>	<b>Methods II: Inquiry and ICT for Chemistry</b>	<b>3</b>	<b>EDSE 346</b>
<b>EDUC 319</b>	<b>Classroom Assessment</b>	<b>3</b>	<b>EDUC 310, 312 &amp; 320,</b>	<b>BIOL 101</b>	<b>Biology 1</b>	<b>3</b>	
<b>EDUC 201</b>	<b>Elective (Research methods)</b>	<b>3</b>			<b>ELECTVE (Education)</b>	<b>3</b>	
<b>CHEM 221</b>	<b>Inorganic Chemistry 1</b>	<b>3</b>		<b>CHEM 242</b>	<b>Experimental Physical Chemistry</b>	<b>1</b>	
<b>CHEM 212</b>	<b>Organic Chemistry II</b>	<b>3</b>		<b>CHEM 352</b>	<b>Exp. Basic Biochemistry</b>	<b>1</b>	
				<b>CHEM 331</b>	<b>Analytical Chemistry II</b>	<b>3</b>	
Total Credit Hours in Semester [15]				Total Credit Hours in Semester [17]			
Spring Semester				Spring Semester			
Course #	Course Title	Cr Hrs.	Pre-requisite	Course #	Course Title	Cr Hrs.	Pre-requisite
<b>EDSE 346</b>	<b>Methods I: Instructional Strategies in Chemistry</b>	<b>3</b>	<b>EDSE 331</b>	<b>EDSE 491</b>	<b>Student Teaching in Secondary Education</b>	<b>9</b>	
<b>CHEM 321</b>	<b>Inorganic Chemistry II</b>	<b>3</b>					
<b>CHEM 241</b>	<b>Physical Chemistry 1</b>	<b>3</b>					
<b>EDUC 316</b>	<b>Classroom management</b>	<b>3</b>	<b>EDUC 312</b>				
<b>CHEM 351</b>	<b>Basic Biochemistry</b>	<b>3</b>					
<b>CHEM 222</b>	<b>Exp. Inorganic Chemistry</b>	<b>1</b>					
Total Credit Hours in Semester [16]				Total Credit Hours in Semester [9]			

- × **Students in the Primary Education Program ONLY must register EDUC 315**
- × **Students in the Secondary Education Program ONLY must register EDUC 320**