

ACADEMIC PROGRAM CURRICULUM STRUCTURE FORM

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

Fall 2024 (updated offering semesters)

1. Overall Curriculum Structure

Table 1.1Overall Curriculum Structure

	Total Number of			
Curriculum Component	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

اسم الحقيبة Package Title	رمز المقرر ورقمه Course Id.	اسم المقرر Course Title	عدد الساعات المكتسبة Nb. of Credit Hours per Course	ساعات علية Nb. of C Hou Theo	الف Ontact	المتطلب السابق Pre- Requisites	عدد الساعات المكتسبة لكل حقيبة Nb. of Credit Hours per Package
	ARAB 100	اللغة العربية 1 Arabic Language	3	3	-		
	ARAB 200	اللغة العربية 2 Arabic Language II	3	3	-	ARAB 100	6
مجموعة الهوية والتواصل (18 CH)	ENGL 202	اللغة الإنجليزية ا مابعد التأسيسي ENGLISH Language I Post Foundation	3	2	3		6
Identity & Communication Package (18 CH)	ENGL 203	اللغة الإنجليزية II مابعد التأسيسي ENGLISH Language II Post Foundation	3	2	3		3
	DAWA 111	الثقافة الإسلامية Islamic Culture	3	3	-		3
	HIST 121	تاریخ قطر History of Qatar	3	3	-		3
العلوم الاجتماعية / العلوم الاجتماعية / السلوكية Social — Behavioural science (3 CH) http://www.qu.edu.qa/ar/c ore/student- information/packages		يختار الطالب مقرراً واحداً من قائمة المقررات المعتمدة من متطلبات الجامعة في هذه الحقيبة Students choose from approved Core Curriculum List	3				3

الفيزياء ، وطلاب التعليم الابتدائي: الرياضيات والعلوم ، الكيمياء ، الأحياء ، الأحياء ، الأعلوم الطفولة الفيزياء ، وطلاب التعليم الابتدائي: الرياضيات والعلوم ، واللغة الإنجليزية كلغة ثانية ابتدائي . الطفولة المبكرة ، واللغة الإنجليزية كلغة ثانية ابتدائي . يجب على يجب على محدد في هذه الحقيبة بالإضافة إلى ذلك يجب على الرياضيات الا يأخذوا الرياضيات 103 . الرياضيات الا يأخذوا الرياضيات 103 . الرياضيات الا الملاب تخصص الرياضيات ألا يأخذوا الرياضيات Students Selecting concentration areas in	
الطفولة المبكرة ، واللغة الإنجليزية كلغة ثانية ابتدائي ، يعجب العلم الطفولة المبكرة ، واللغة الإنجليزية كلغة ثانية ابتدائي ، يعجب ألا يأخذوا العبيد	
المجموعة العلوم الطبيعية / معدد في هذه الحقيبة. بالإضافة إلى ذلك يجب على الطلاب تخصص الرباضيات ألا يأخذوا الرباضيات 103 الرباضيات الرباضيات الايأخذوا الرباضيات الايأخذوا الرباضيات المحدد في هذه الحقيبة المحدد في هذه الحقيبة المحتوية العلام المحتوية العلام المحتوية العلام المحتوية العلام المحتوية المحتوية العلام المحتوية العلم المحتوية العلم المحتوية العلم المحتوية العلم المحتوية العلم المحتوية	
الطلاب تخصص الرباضيات ألا يأخذوا الرباضيات 103. Natural Sciences — الطلاب تخصص الرباضيات ألا يأخذوا الرباضيات 103. Mathematics Students selecting concentration areas in (3 CH) Mathematics, Biology, Chemistry, Physics, Math hhttp://www.qu.edu.qa/ar /core/student- information/packages They may select any other course defined in this	
الطلاب تخصص الرياضيات 103. الرياضيات 103 الرياضيات 103 الرياضيات 103 الرياضيات 103 المحدد في هذه الحقيبة. Mathematics Students selecting concentration areas in (3 CH) Mathematics, Biology, Chemistry, Physics, Math and Science, Primary Education, Early Childhood, English Primary ESL, should not take MATH 105. information/packages They may select any other course defined in this	
Natural Sciences — محكهم اختيار أي أي مقرر آخر محدد في هذه الحقيبة. Mathematics Students selecting concentration areas in (3 CH) Mathematics, Biology, Chemistry, Physics, Math hhttp://www.qu.edu.qa/ar /core/student- information/packages They may select any other course defined in this	
Mathematics (3 CH) Mathematics, Biology, Chemistry, Physics, Math hhttp://www.qu.edu.qa/ar /core/student- information/packages Students selecting concentration areas in Mathematics, Biology, Chemistry, Physics, Math and Science, Primary Education, Early Childhood, English Primary ESL, should not take MATH 105. They may select any other course defined in this	
(3 CH) Mathematics, Biology, Chemistry, Physics, Math hhttp://www.qu.edu.qa/ar /core/student- information/packages Mathematics, Biology, Chemistry, Physics, Math and Science, Primary Education, Early Childhood, English Primary ESL, should not take MATH 105. They may select any other course defined in this	
(3 CH) Mathematics, Biology, Chemistry, Physics, Math hhttp://www.qu.edu.qa/ar /core/student- information/packages Mathematics, Biology, Chemistry, Physics, Math and Science, Primary Education, Early Childhood, English Primary ESL, should not take MATH 105. They may select any other course defined in this	
/core/student- English Primary ESL, should not take MATH 105. information/packages They may select any other course defined in this	
information/packages They may select any other course defined in this	
package. In addition, Students selecting a	I
range in artist, realisting solutions, and	
concentration area in Mathematics should not take	
MATH 103. They may select any other course	
.defined in this package	
مجموعة المعارف والمهارات	
يجب على طلاب تخصص الكيمياء إكمال متطلبات هذه الأساسية	
الحزمة من خلال إكمال 6 ساعات معتمدة في المقررات Core Knowledge and Skills	
المدرجة في حقيبة المعارف والمهارات الأساسية Package	
Students selecting the Chemistry concentration area 6 6	
must complete this package requirements by	
ore/student-	
information/packages defined Core Knowledge and Skills Package.	
المتطلبات العامة التكميلية	
للكلية المراجع	ļ
سيمينار السنة الأولى Supplemental UNIV 100 3 3	
College/Program Package First Year Seminar	ļ
(3 CH)	ļ
المجموع الكلي	
Total 33	

2.2. Major Requirements (36 CH)

Students must complete 30 CH from the courses listed below in addition to completing

 $\underline{6}$ 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)

e		No. of hours		hours	6 9 11	Offering				
Course No.	Course Name	СН	Theory	Exp.	Course Prerequisites المتطلبات السابقة	Semester(s) <u>فصول الطرح</u>				
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 310, 312 &320, Students must have completed a minimum of 60 CH	S/F خریف/ربیع				
EDUC 317	Inclusive Classrooms	3	3	0		S/F خریف/ ربیع				
EDUC 320	Human Development	3	3	0		S/F خريف/ربيع				
EDSE 331	Reading and Writing Across the Curriculum	3	3	0	EDUC 310 & EDUC 312 & EDUC 320	S/F خریف/ربیع				
EDUC 319	Classroom Assessment	3	3	0	EDUC 310, 312 &320, Students must have completed a minimum of 60 CH	S/F خریف/ ربیع				
EDSE 491	Student Teaching in Secondary Education	9	9	All Coursework	All Coursework	S				
	Methods for Chemistry sub-package									
EDSE 346	Methods I:Instructional Strategies for Chemistry	3	3 F	Field work	EDSE 331	S				
EDSE 466	Methods II: Inquiry and ICT for Chemistry	3	3	Micro eaching	EDSE 346	F				

2.3. Concentration Requirements for Chemistry Students (45 CH)

Students must complete a minimum of <u>45</u> credit hours by completing the following courses in concentration requirements: على الطالب تسجيل جميع المقررات في الحقيبة وحسب وقت طرح

Table 2.3.1 Chemistry Subject Courses (45 CH)

 Table 2.3.1
 Courses in Concentration Requirements

Course Id. Course Title		Nb. of Credit	Nb. of C		Course Prerequisites	Course Co-	Offering Semester(s)
Course iu.	Course ritte	Hours	Theo.	Lab.	المتطلبات السابقة	Requisites	
CHEM 101	General Chemistry I	3	3	-	-	1.	F
CHEM 102	General Chemistry II	3	3	-	CHEM 101		S
CHEM 103	Experimental General Chemistry I	1	-	3	CHEM 101		F
CHEM 104	Experimental General Chemistry II	1	-	3	CHEM 103 AND CHEM 102		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	-	-		S
CHEM 217	Organic Chemistry I	3	3		CHEM 101 AND CHEM 103		F
CHEM 218	Experimental Organic Chemistry I	1		3	(CHEM 103 AND (CHEM 217 with concurrency))		F
CHEM 310	Organic Chemistry II	3	3		CHEM 209 OR CHEM 211 OR CHEM 217		S
CHEM 313	Experimental Organic Chemistry II	1		3	(CHEM 218 AND (CHEM 310 with concurrency))		S
CHEM 221	Inorganic Chemistry I	3	3	-	CHEM 101		F
CHEM 222	Experimental Inorganic Chemistry	1	-	3	CHEM 103 AND CHEM 221		S
CHEM 237	Analytical Chemistry I	3	3		CHEM 101ANDCHEM 103		F
CHEM 238	Experimental Analytical Chemistry I	1		3	CHEM 103 AND (CHEM 237 with concurrency) OR (CHEM 103 AND (CHEM 231 with concurrency))		F
CHEM 241	Physical Chemistry I	3	3	-	CHEM 102		F
CHEM 242	Experimental Physical Chemistry I	1	3	-	CHEM 104 And CHEM 241		F
CHEM 337	Analytical Chemistry II	3	3		(CHEM 231 OR CHEM 237) AND (CHEM 338 with concurrency)		S
CHEM 338	Experimental Analytical Chemistry II	1		3	(CHEM 234 OR CHEM 238) AND (CHEM 337 with concurrency)		S
CHEM 351	Basic Biochemistry	3	3	-	CHEM 209 OR CHEM 212 OR CHEM 310		F
CHEM 352	Experimental Basic Biochemistry	1	-	3	CHEM 209 OR CHEM 218 AND (CHEM 351 with concurrency)		F

2.4 Major Electives (6 CH)

Students must take $\underline{6}$ credit hours from the list of courses listed in the following table.

Table 2.4Courses 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.		Requisites	
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 Semeste	er		Fall Semester					
Course	ourse # Course Title Cr Hrs. Pre-requisite		Course # Course Title Co			r Hrs. Pre-requisi			
	Core Requirement	3		EDSE	Reading and Writing Across the	3	EDUC 310, EDUC 312 & EDUC		
	core requirement			331	Curriculum		<mark>320</mark>		
	Core Requirement	3			Core Requirement	3			
	Core requirement	3		<mark>СНЕМ</mark> 103	Experimental General Chemistry I	1	CHEM 101		
EDUC 310	Foundation of Education& School Reform	3		CHEM 217	Organic Chemistry I	3	CHEM 101 AND CHEM 103		
				CHEM 218	Experimental Organic Chemistry I	1	(CHEM 103 AND (CHEM 217 with concurrency))		
CHEM 101	General Chemistry I	3	_	CHEM 237	Analytical Chemistry I	3	CHEM 101ANDCHEM 103		
				CHEM 238	Experimental Analytical Chemistry I	1	CHEM 103 AND (CHEM 237 with concurrency) OR (CHEM 103 AND (CHEM 231 with concurrency))		
					Core Requirement	3			
	Total Credit Hours in So	emes	ter [15]	Total Credit Hours in Semester [18]					
	Spring Semes	ter		Spring Semester					
	Course # Course Title	Cr F	Irs. Pre-requisite	Course 7	# Course Title		Cr Hrs. Pre-requisite		
	Core Requirement	3		CHEM 104	Exp. General Chemistry II	1	CHEM 103 and CHEM 102		
	Core Requirement	3		EDUC 317	Inclusive Classroom	3			
EDUC 312	Curriculum & Assessment	3		GEOG 101	Principles of Geology	3			
EDUC 320	Human Development	3		PHYS 183	Intro. to General Physics	3			
CHEM 102	General Chemistryll	3	CHEM 101	CHEM 310	Organic Chemistry II	3	CHEM 209 OR CHEM 211 OR CHEM 217		
	Core Requirement	3		CHEM 313	Experimental Organic Chemistry II	1	(CHEM 218 AND (CHEM 310 with concurrency))		
	Total Credit Hours in So	ter [16]	Total Credit Hours in Semester [16]						

THIRD YEAR [33] credit hours)					FOURTH YEAR [33] credit hours)					
	Fall Semester	r		Fall Semester						
Course #	Course Title Cr Hrs. Pre-r	equisit	e	Course #	Course Title Cr Hrs. F	re-requisite				
	Core Requirement	3		EDSE	Methods II: Inquiry and ICT for	3	EDSE 346			
				466	Chemistry					
EDUC	Classroom Assessment	3	EDUC 310, EDUC 312 &	BIOL 101	Biology 1	3				
319			EDUC 320							
	Elective (Education)	3			Core Requirement	3				
CHEM	Inorganic Chemistry 1	3	CHEM 101	CHEM	Experimental Physical Chemistry	1	CHEM 104 And			
221				242			CHEM 241			
CHEM	Physical Chemistry 1	3	CHEM 102	CHEM	Exp. Basic Biochemistry	1	CHEM 209 OR			
241				352			CHEM 218 AND			
							(CHEM 351 with			
							concurrency)			
				CHEM	Basic Biochemistry	3	CHEM 209 OR			
				351			CHEM 212 OR CHEM			
							310			
				EDUC	Classroom management	3	EDUC 310, EDUC			
				316			312 & EDUC 320			
	Total Credit Hours in Sem	ster [15]		Total Credit Hours in Semester [17]				
	Spring Semester				Spring Semester	Spring Semester				
Course #	Course Title		Cr Hrs. Pre-requisite	Course #	Course Title	Cr Hr	s. Pre-requisite			
EDSE 346	Methods I:	3	EDSE 331	EDSE 491	Student Teaching in Secondary	9	All Coursework			
	Instructional Strategies in				Education					
	Chemistry									
	Core Requirement	3								
	Elective (Education)	3								
CHEM	Exp. Inorganic	1	CHEM 103 AND CHEM							
222	Chemistry		221							
CHEM 337	Analytical Chemistry II	3	CHEM 101 AND							
			CHEM 103							
CHEM 338	Experimental Analytical	1	CHEM 103 AND (CHEM							
	Chemistry II		237 with concurrency) OR							
			(CHEM 103 AND							
			(CHEM 231 with							
	- 1- 1:		concurrency))							
	Total Credit Hours in Se	meste	r [14]		Total Credit Hours in Semester	[9]				