

ACADEMIC PROGRAM CURRICULUM STRUCTURE FORM

Degree: Bachelor of Education in Secondary Education

With Concentrations in **Mathematics**

Fall 2024

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*

اسم الحقيبة Package Title	رمز المقرر ورقمه Course Id.	اسم المقرر Course Title	عدد الساعات المكتسبة Nb. of Credit Hours per Course	عدد الساعات الفعلية Nb. of Contact Hours		المتطلب السابق Pre- Requisites	عدد الساعات المكتسبة لكل حقيبة Nb. of Credit Hours per Package
				Theo نظري	Lab. عملي		
مجموعة الهوية والتواصل (18 CH) Identity & Communication Package (18 CH)	ARAB 100	اللغة العربية 1 Arabic Language	3	3	-		6
	ARAB 200	اللغة العربية 2 Arabic Language II	3	3	-	ARAB 100	
	ENGL 202	اللغة الإنجليزية I مابعد التأسيسي ENGLISH Language I Post Foundation	3	2	3		6
	ENGL 203	اللغة الإنجليزية II مابعد التأسيسي ENGLISH Language II Post Foundation	3	2	3		
	DAWA 111	الثقافة الإسلامية Islamic Culture	3	3	-		3
	HIST 121	تاريخ قطر History of Qatar	3	3	-		3
مجموعة العلوم الاجتماعية / السلوكية Social – Behavioural science (3 CH) http://www.qu.edu.qa/ar/core/student-information/packages		يختار الطالب مقررًا واحدًا من قائمة المقررات المعتمدة من متطلبات الجامعة في هذه الحقيبة Students choose from approved Core Curriculum List	3				3
مجموعة العلوم الطبيعية / الرياضيات Natural Sciences – Mathematics		طلاب التعليم الثانوي: الرياضيات ، الأحياء ، الكيمياء ، الفيزياء ، وطلاب التعليم الابتدائي: الرياضيات والعلوم ، الطفولة المبكرة ، واللغة الإنجليزية كلغة ثانية ابتدائي ، يجب ألا يأخذوا MATH 105. يمكنهم اختيار أي مقرر آخر	3				3

(3 CH) http://www.qu.edu.qa/ar/core/student-information/packages		<p>محدد في هذه الحقيبة. بالإضافة إلى ذلك يجب على الطلاب تخصص الرياضيات ألا يأخذوا الرياضيات 103. يمكنهم اختيار أي مقرر آخر محدد في هذه الحقيبة.</p> <p>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 package. In addition, Students selecting a concentration area in Mathematics should not take MATH 103. They may select any other course defined in this package.</p>					
<p>مجموعة المعارف والمهارات الأساسية</p> <p>Core Knowledge and Skills Package</p> <p>(6 CH)</p> <p>http://www.qu.edu.qa/ar/core/student-information/packages</p>		<p>يجب على طلاب تخصص الرياضيات إكمال متطلبات هذه الحزمة من خلال إكمال 6 ساعات معتمدة في المقررات المدرجة في حقيبة المعارف والمهارات الأساسية</p> <p>Students selecting the Mathematics concentration area must complete this package requirements by completing 6 CH in courses listed in the CCP defined Core Knowledge and Skills Package.</p>	6				6
<p>المتطلبات العامة التكميلية للكلية</p> <p>Supplemental College/Program Package</p> <p>(3 CH)</p>	UNIV 100	<p>سيمينار السنة الأولى</p> <p>First Year Seminar</p>	3				3
المجموع الكلي Total							33

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)

على الطالب تسجيل جميع المقررات في الحقيبة وحسب وقت طرح

Course No.	Course Name	No. of hours			Course Prerequisites المتطلبات السابقة	Offering Semester(s) فصول الطرح
		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 310, 312 & 320 Students must have completed a minimum of 60 CH	S/F خريف/ربيع
EDUC 317	Inclusive Classrooms	3	3	0		S/F خريف/ربيع
EDUC 320x	Human Development	3	3	0		S/F خريف/ربيع
EDSE 331	Reading and Writing Across the Curriculum	3	3	0	EDUC 310, 312 & 320	S/F خريف/ربيع
EDUC 319	Classroom Assessment	3	3	0	EDUC 310, 312 & 320 Students must have completed a minimum of 60 CH	S/F خريف/ربيع
EDSE 491	Student Teaching in Secondary Education	9	9	All Coursework	All Coursework	S
Methods for Math sub-package						
EDSE 344	Methods I: Instructional Strategies for Math	3	3	Field work	EDSE 331	S
EDSE 464	Methods II: Inquiry and ICT for Math	3	3	Micro teaching	EDSE 344	F

2.3. Concentration Requirements for Mathematics Students (45 CH)

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

على الطالب تسجيل جميع المقررات في الحقيبة وحسب وقت طرح

Table 2.3.1 Mathematics 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 المتطلبات السابقة	Course Co-Requisites	Offering Semester(s) فصول الطرح
			Theo.	Lab.			
STAT 101	Statistics I	3	4	0	-		F&S
MATH 101	Calculus I	3	4	0	MATH 004 OR MATH P100 OR SAT 550 OR ACT 24 OR (APEA 082) AND (APCL 095)		F&S
MATH 102	Calculus II	3	4	0	MATH 101		F&S
PHYS 101	General Physics I	3	3	1	MATH 101		S
MATH 365	Scientific Computation & Programming	3	3	1	MATH 231		S
MATH 211	Calculus III	3	4	0	MATH 102		F&S
MATH 213	Differential Equations	3	4	0	MATH 102	Math 211	S
MATH 220	Foundations of Mathematics	3	4	0	MATH 101		F
MATH 222	Real Analysis I	3	4	0	MATH 220		S
MATH 231	Linear Algebra	3	2	2	MATH 101		F&S
MATH 233	Abstract Algebra	3	4	0	MATH 220		F&S
MATH 324	Complex Analysis	3	4	0	MATH 211		F&S
MATH 335	Number Theory	3	3	0	MATH 220		F
MATH 341	Modern Geometry	3	4	0	MATH 231		F
MATH 366	Numerical Analysis I	3	2	2	MATH 102 & (CMPS221 OR CMPS251 OR CMPS223 OR MATH 365)		F

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
Mathematics 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		MATH 102	Calculus II	3	
MATH 101	Calculus 1	3		MATH 220	Foundation of Mathematics	3	
Total Credit Hours in Semester [15]				Total Credit Hours in Semester [15]			
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			Core Requirement	3	
EDUC 312	Curriculum & Assessment	3		EDSE 331	Reading and Writing Across the Curriculum	3	EDUC 310, 312 & 320
EDUC 320	Human Development	3		MATH 222	Real Analysis I	3	
STAT 101	Statistics I	3		EDUC 317	Inclusive Classroom	3	
MATH 231	Linear Algebra	3		PHYS 101	General Physics 1	3	
Total Credit Hours in Semester [18]				Total Credit Hours in Semester [18]			

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
	Core Requirement	3		EDSE 464	Methods II: Inquiry and ICT for Mathematics	3	EDSE 344
EDUC 319	Classroom Assessment	3	EDUC 310, 312 & 320	MATH 341	Modern Geometry	3	
	ELECTVE (Education)	3			ELECTVE (Education)	3	
MATH 233	Abstract Algebra	3		MATH 335	Number Theory	3	
MATH 211	Calculus III	3		MATH 366	Numerical Analysis I	3	
Total Credit Hours in Semester [15]				Total Credit Hours in Semester [15]			
Spring Semester				Spring Semester			
Course #	Course Title	Cr Hrs.	Pre-requisite	Course #	Course Title	Cr Hrs.	Pre-requisite
EDSE 344	Methods I: Instructional Strategies in Mathematics	3	EDSE 331	EDSE 491	Student Teaching in Secondary Education	9	All Coursework
MATH 324	Complex Analysis	3					
MATH 213	Differential Equations	3					
MATH 365	Scientific Computation and programming	3					
EDUC 316	Classroom Management	3	EDUC 310, 312 & 320				
Total Credit Hours in Semester [15]				Total Credit Hours in Semester [9]			