



**Study plan of the Bachelor of science in Mathematics program  
(Number of program hours = 126)**

**First Year**

First level				Second level			
Code	Course Name	Hr	Requisite	Code	Course Name	Hr	Requisite
011ENG-6	Intensive English Program 1	6	----	101CS-2	Computer Science	3	----
101BIOL-4	General Biology	4	----	101 PHYS-4	Introduction to Physics	4	----
101MATH-3	Calculus -1	3	----	101CHEM-4	General Chemistry-1	4	----
111 ICI-2	The Entrance to the Islamic Culture	2	----	110NGL-3	Scientific English for Science Students	3	011ENG-6-S
<b>Total</b>		<b>15</b>		112ICI-2	Islamic Cluture-2	2	----
				201ARAB-2	Arabic Language Skills	2	----
				<b>Total</b>		<b>18</b>	

**Second Year**

Third level				Forth level			
Code	Course Name	Hr	Requisite	Code	Course Name	Hr	Requisite
CS102-3	Computation Skills 2	2	----	114ICI-2	Islamic Culutre-4	2	----
113ICI-2	Islamic Culutre-3	2	----	203MATH-3	Calculus 3	3	202MATH-3-S
202MATH-3	Calculus 2	3	101MATH-3-S	212STAT-3	Mathematical Statistics	3	211MATH-3-S
202ARAB-2	Arabic Editing	2	----	242MATH-3	Linear Algebra 1	3	232MATH-3-S
211MATH-3	Principle of Statistics & Probability	3	----	251MATH-2	Programming for Mathematics	2	CS102-3-S
232MATH-3	Foundations of Mathematics	3	101MATH-3-S	263MATH-3	Introduction to Differential Equations	3	202MATH-3-S
<b>Total</b>		<b>15</b>		<b>Total</b>		<b>16</b>	

### Third Year

Fifth level				Sixth level			
Code	Course Name	Hr	Requisite	Code	Course Name	Hr	Requisite
304MATH-3	Vector Analysis	3	203MATH-3-S	313STAT-3	Probability Theory 1	3	211MATH-3-S 203MATH-3-S
322MATH-3	Real Analysis 1	3	203MATH-3-S	323MATH-3	Real Analysis 2	3	322MATH-3-S
343MATH-3	Linear Algebra 2	3	242MATH-3-S	345MATH-3	Group Theory	3	232MATH-3-S 344MATH-3-S
344MATH-3	Number Theory	3	232MATH-3-S 242MATH-3-S	352MATH-3	Numerical Analysis	3	242MATH-3-S 263MATH-3-S
361MATH-3	Applied Mathematics	3	202MATH-3-S	363MATH-2	Mathematical Methods	3	263MATH-3-S 343MATH-3-S
<b>Total</b>		<b>15</b>		<b>Total</b>		<b>15</b>	

### Forth Year

Seventh level				Eighth level			
Code	Course Name	Hr	Requisite	Code	Course Name	Hr	Requisite
423MATH-3	Functions of Complex Variables	3	203MATH-3-S 322MATH-3-S	414STAT-3	Probability Theory 2	3	323MATH-3-S 313STAT-3-S
445MATH-3	Rings and Fields	3	345MATH-3-S	424MATH-3	Analysis in Several Variables	3	323MATH-3-S
464MATH-3	Theory of Differential Equations	3	263MATH-3-S 343MATH-3-S	432MATH-3	Introduction to Graph Theory and Combinatory	3	344MATH-3-S
481MATH-3	Introduction to Topology	3	322MATH-3-S	453MATH-3	Mathematical Programming	3	203MATH-3-S
490MATH-3	Special Topics	2	322MATH-3-S	472MATH-3	Differential Geometry	3	203MATH-3-S 363MATH-3-S
491MATH-3	Research Project	3	313MATH-3-S 322MATH-3-S 345MATH-3-S 363MATH-3-S	<b>Total</b>		<b>15</b>	
<b>Total</b>		<b>17</b>					