

Requirements		Credits hours	
University requirements		12	
Faculty requirements	Compulsory	47	
	Optional	None	
Department requirements	Compulsory	64	
	Optional	9	
Total		132	

### Study Plan Courses & Levels

1 <sup>st</sup> Level		Preparatory Year				
Courses Title	Course Code	Contact Hours			Credit	Prerequisites
		Theoretical	practical	Training		
1 MATH I	MATH 100	3			3	
2 General Chemistry	CHEM 101	3			3	
3 English I	ECS 001	15			5	
4 General Biology	BIO 101	3			3	
5 Learning, Thinking, and Research Skills	LTS 001	3			3	
Total		27			17	
2 <sup>nd</sup> Level		Preparatory Year				
Courses Title	Course Code	Contact Hours			Credit	Prerequisites
		Theoretical	practical	Training		
1 General Physics	PHYS 101	3			3	0
2 MATH II	MATH 101	3			3	MATH 100
3 English II	ELS 002	15			5	ECS 001
4 Computer Skills and Its application	CSC 001	3			3	
5 Communication Skills	COMM 001	2			2	
Total		26			16	
3 <sup>rd</sup> Level		Second Year				
Courses Title	Course Code	Contact Hours			Credit	Prerequisites
		Theoretical	practical	Training		
1 Fundamentals of integral Calculus	MATH 200	4	1		4	MATH 101
2 Basics of Mathematics	MATH251	3	1		3	MATH 101
3 Analytical Geometry	MATH261	3	-		3	MATH 101
4 Programming Language	CSC 112	3	2		4	CSC 001
5 Language Skills	ARB 101	2	-		2	-----
6 Islamic Culture (1)	ISLS101	2	-		2	
Total		21			18	
4 <sup>th</sup> Level		Second Year				
Courses Title	Course Code	Contact Hours			Credit	Prerequisites
		Theoretical	practical	Training		
1 Advanced Calculus	MATH 203	4			4	MATH 200
2 Differential Equations	MATH 204	3	2		3	
3 Linear Algebra	MATH 241	3	-		3	MATH 251
4 General Statistics	STAT 201	4	-		4	
5 Writing Skills	ARB 201	2	-		2	ARB 101

<b>6</b>	<b>Islamic Culture (2)</b>	ISLS 201	<b>2</b>	-		<b>2</b>	<b>ISLS101</b>
			<b>Total</b>	<b>20</b>		<b>18</b>	
<b>5<sup>th</sup> Level</b>		<b>Third Year</b>					
<b>Courses Title</b>		<b>Course Code</b>	<b>Contact Hours</b>			<b>Credit</b>	<b>Prerequisites</b>
			Theoretical	practical	Training		
<b>1</b>	Differential Equations 2	MATH 305	3			<b>3</b>	MATH 204
<b>2</b>	Real Analysis 1	MATH 311	3			<b>3</b>	MATH 251,
<b>3</b>	Probability theory (1)	STAT 311	3			<b>3</b>	STAT 201
<b>4</b>	Abstract Algebra 1	MATH 342	3			<b>3</b>	MATH 251
<b>5</b>	Islamic Culture (3)	ISLS 301	2	-		<b>2</b>	ISLS 201
<b>Total</b>			<b>14</b>			<b>14</b>	
<b>6<sup>th</sup> Level</b>		<b>Third Year</b>					
<b>Courses Title</b>		<b>Course Code</b>	<b>Contact Hours</b>			<b>Credit</b>	<b>Prerequisites</b>
			Theoretical	practical	Training		
<b>1</b>	Partial Differential Equations	MATH 406	3			<b>3</b>	MATH 305
<b>2</b>	Abstract Algebra 2	MATH 343	3			<b>3</b>	MATH 342
<b>3</b>	Introduction to Numerical Analysis	MATH 334	3			<b>3</b>	STAT 201 MATH 203,
<b>4</b>	Introduction to Operations Research	MATH 340	2			<b>2</b>	MATH 203
<b>5</b>	Optional Mathematics	MATH xxx	3			<b>3</b>	
<b>Total</b>			<b>14</b>			<b>14</b>	
<b>7<sup>th</sup> Level</b>		<b>Fourth Year</b>					
<b>Courses Title</b>		<b>Course Code</b>	<b>Contact Hours</b>			<b>Credit</b>	<b>Prerequisites</b>
			Theoretical	practical	Training		
<b>1</b>	Mathematics and Packages Programs	MATH 333	3			<b>3</b>	STAT 201 MATH 200
<b>2</b>	Integral Equations	MATH 408	3			<b>3</b>	MATH 305, MATH 311
<b>3</b>	Complex Analysis (1)	MATH 413	3			<b>3</b>	MATH 311
<b>4</b>	General Topology	MATH 464	3			<b>3</b>	MATH 251 MATH 311
<b>5</b>	History of Mathematics among the Arabs and Muslims	MATH 481	3			<b>3</b>	MATH 200
<b>6</b>	Optional Mathematics	MATH xxx	3			<b>3</b>	STAT 201
<b>Total</b>			<b>18</b>			<b>18</b>	
<b>8<sup>th</sup> Level</b>		<b>Fourth Year</b>					
<b>Courses Title</b>		<b>Course Code</b>	<b>Contact Hours</b>			<b>Credit</b>	<b>Prerequisites</b>
			Theoretical	practical	Training		
<b>1</b>	Discrete Mathematics	MATH 462	3			<b>3</b>	MATH 251
<b>2</b>	Differential Geometry	MATH 463	3			<b>3</b>	MATH 305 MATH 204
<b>3</b>	Functional Analysis	MATH 415	3			<b>3</b>	MATH 311
<b>4</b>	Optional Mathematics	MATH xxx	3			<b>3</b>	Passing level 6
<b>5</b>	** Research Project	MATH 491	6			<b>3</b>	MATH464
<b>6</b>	Islamic Culture (4)	ISLS 401	2	-		<b>2</b>	ISLS 301
<b>Total</b>			<b>17</b>			<b>17</b>	

### Credit point system:

- Study system is on the basis of levels.
- The program consists of 8 levels (4 years).
- One level lasts for one semester.
- Total credit hours are 132 hour.
- One credit hour equivalent to one hour lecture or two tutorial/lab hours per week.