

**Study Plan For The Bachelor Degree in  
Mathematics, Faculty of Science and Arts in  
Qilawah , Al-Baha University**

**1438H / 1439H**



## Bachelor of Science in Mathematics

The total credit units for obtaining Bachelor of Science in  
Mathematics is 133 credit units

Level (1)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
11030119	English Language(1)	3	6	0	0	---	
42041103	Differential &Integral(1)	4	2	0	0	---	
42011103	General Biology(1)	4	3	2	0	---	
11010101	Islamic Culture(1)	2	2	0	0	---	
11020204	Health Culture	1	2	0	0	---	
18091501	Arabic Editing	2	2	0	0	---	
<b>Total</b>		16	18	2	0		

Level (2)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
11030219	English Language(2)	3	6	0	0	11030119	
42032102	General Physics (1)	4	3	2	0	---	
42020102	General Chemistry(1)	4	3	2	0	---	
11020107	recitation correction	2	2	0	0	---	
11010111	Islamic Culture(2)	2	2	0	0	---	
<b>Total</b>		15	16	4	0		

Level (3)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041217	Principles of statistics and probability	3	2	0	2	---	
42041219	Vectors and Mechanics	3	2	0	2	---	
42041221	Fundamentals of Math.	3	2	0	2	---	
42041223	Differential &Integral (2)	3	2	0	2	42041103	
42041225	Analytical Geometry	3	2	0	2	---	
42041227	Specialized English Language	2	2	0	0	---	
11010113	Voluntary service (1)	0	0	0	0	---	
<b>Total</b>		17	12	0	10		

Level (4)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041216	Real analysis (1)	3	2	0	2	42041103	
42041218	Introduction to mathematical statistics	3	2	0	2	42041217	
42041220	Differential & Integral (3)	3	2	0	2	42041223	
42041222	Ordinary Differential Equations	3	2	0	2	42041223	
42041224	Linear Algebra	3	2	0	2	---	
42051202	Computer Skills	2	1	2	0	---	
11010123	Voluntary service( 2)	0	0	0	0	---	
<b>Total</b>		17	11	2	10		

Level (5)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041313	Numerical Analysis	3	3	0	0	42041222	
42041315	Abstract Algebra (1)	3	3	0	0	42041221	
42041317	Partial Differential Equations	3	3	0	0	42041222	
42041319	Vector Analysis	3	3	0	0	42041220	
42041321	Mathematical applications in Computers	3	2	2	0	42051202	
42041323	Statistical Analysis	3	3	0	0	42041217	
<b>Total</b>		18	17	2	0		

Level (6)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041312	Real Analysis (2)	3	3	0	0	42041216	
42041314	Continuum Mechanics	3	3	0	0	42041319	
42041316	Complex analysis	3	3	0	0	42041216	
42041318	Mathematical Methods	3	3	0	0	42041317	
42041320	Number Theory	3	3	0	0	42041221	
11010112	Essay and Research Writing	2	2	0	0	---	
<b>Total</b>		17	17	0	0	0	

Level (7)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041419	Analytical mechanics	3	3	0	0	42041219	
42041421	Abstract Algebra (2)	3	3	0	0	42041315	
42041423	Introduction to Topology	3	3	0	0	42041221	
42041425	Differential Geometry	3	3	0	0	42041224	
42041427	mathematical modeling	3	3	0	0	42041222	
	Department Elective(1)	3	3	0	0	---	
<b>Total</b>		18	18	0	0		

Level (8)							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041420	Quantum Theory	3	3	0	0	42041419	
42041422	Operations Research	3	3	0	0	42041218	
42041424	Functional Analysis	3	3	0	0	42041312	
42041426	Research Project	3	3	0	0	Pass (100 C.Hr.)	
	Department Elective(2)	3	3	0	0	---	
<b>Total</b>		15	15	0	0		

### Elective Course for Mathematics Dep.

Elective Course (1) for Mathematics Dep.							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041429	Discrete Mathematics	3	3	0	0	42041221	
42041431	Sets Theory	3	3	0	0	42041221	

Elective Course (2) for Mathematics Dep.							
Course Number	Name Course	Units Distribution				Prerequisite	Observations
		Credits	T.	P.	E.		
42041428	Fuzzy Mathematics	3	3	0	0	42041221	
42041430	Special relativity	3	3	0	0	42041314	
42041432	Statistical inference	3	3	0	0	42041218	

