

**Study Plan for B.Ed. in Mathematics**

Year	Course Code	Course Name	Pre-requisites	Credit Hours	Course Code	Course Name	Pre-requisites	Credit Hours
<b>Semester One (Pre-Major)</b>					<b>Semester Two</b>			
1	ARAB100	Arabic Language I		3	ARAB101	Arabic Language II	ARAB100	3
	ENGL150	English Language I		3	ENGL152	English Language II	ENGL150	3
	HIST150	Islamic Civilization		3	STAT101	Int. to Statistics		4
	COMP101/L	Computer Skills	COMP A/B, Digital Literacy	3	MATH 221	Foundations of Mathematics	MATH116	3
	MATH116	Pre-Calculus		4	MATH211	Calculus I	MATH116	4
<b>Semester Total</b>				<b>16</b>	<b>Semester Total</b>			
				<b>16</b>	<b>17</b>			
<b>Semester Three</b>					<b>Semester Four</b>			
2	MATH228	Mathematics for Teachers I (Algebra)	MATH116	3	MATH340	Introduction to Number Theory	MATH221	3
	MATH145	Linear Algebra I	MATH116	3	MATH259	Calculus III	MATH212	3
	MATH212	Calculus II	MATH211	3	EDUC103	Educational Psychology		3
	ENGL155	Comm. Skills	ENGL152	3	EDUC113	Foundations in Education		3
	COMP151/L	Introduction to Algorithms	COMP101/L	4	MATH310	Introduction to Group Theory	MATH221	3
		Department Elective		3	MATH256	Mathematics for Teachers II (Geometry)	MATH228	3
<b>Semester Total</b>				<b>19</b>	<b>Semester Total</b>			
				<b>19</b>	<b>18</b>			
<b>Semester Five</b>					<b>Semester Six</b>			
3	MATH215	Ordinary Differential Equations	MATH212	3	MATH315	Partial Differential Equations	MATH215	3
	MATH365	Linear Algebra II	MATH145	3	EDUC301	Methods of Teaching	EDUC200	3
	EDUC200	Curriculum and Instruction	EDUC103	3	EDUC302	Guidance and School Counseling	EDUC301	3
	EDUC400	Psychological Measurement and Educational Evaluation		3		Department Elective		3
	MATH323	Foundation Analysis		1	MATH360	Real Analysis I	MATH221	3
	MNGT100	Entrepreneurship Creativity and Innovation		3		University Elective		3
<b>Semester Total</b>				<b>16</b>	<b>Semester Total</b>			
				<b>16</b>	<b>18</b>			

Semester Seven					Semester Eight				
4	MATH410	Complex Analysis I	MATH259	3	EDUC402	Practical Education	EDUC301	6	
	EDUC204	Systems of Education and Administration in the GCC		3	EDUC202	Technology Of Education	COMP101/L	3	
	PHYS101/L	General Physics I	MATH116	4		Department Elective		3	
		College Elective		3		Department Elective		3	
		Department Elective		3					
	<b>Semester Total</b>				<b>16</b>	<b>Semester Total</b>			
<b>Grand Total: 135</b>									