

B SC MATHEMATICS STUDY PLAN

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1	Math 1050	Differential Calculus	Required	Nil	3(3,1, 0)	College
	TC 1400	Computer Skills	Required	Nil	3 (2, 0,1)	College
	Eng 1210	English Reading skills	Required	Nil	3 (2, 2,0)	College
	Eng 1220	English Writing Skills	Required	NIL	3 (2, 2,0)	College
	Eng 1230	English Conversation and listening skills	Required	Nil	3 (2, 0,2)	College
Level 2	Islam 101	Introduction of Islamic Culture	Required	Nil	2 (2, 0,0)	Institution
	Arab 101	Arabic Language skills	Required	Nil	2 (2, 0,0)	Institution
	Math 1060	Integral Calculus	Required	Nil	3(3,1, 0)	College
	Comm 1400	Communication skills	Required	NIL	2 (2, 0,0)	College
	Eng 1604	Scientific English Language	Required	Nil	3 (2, 0,1)	College
	Phys 1010	General Physics (1)	Required	Nil	4 (3,1, 1)	College
Level 3	Math 2311	Infinite Series and Calculus Applications	Required	Math 1060	3(3,1,0)	Program
	Math 2240	Algebra and Analytic Geometry	Required	Math 1060	3(3,1,0)	Program
	Stat 2010	Elementary Probability and Statistics	Required	Math 1060	3(3,1,0)	Program
	Phys 2180	General Physics for Students of Mathematics (2)	Required	Phys 1010	3(3,0,1)	Program
	Math 2301	Visual Programming of Mathematical Problem	Required	TC 1400	3(3,0,1)	Program
	Islam 102	Islam and Society	Required		2(2,0,0)	Institution
Level 4	Stat 2040	Statistical Methods	Required	Stat 2010	3(3,1,0)	Program
	Math 2250	Linear Algebra- I	Required	Math 2240	3(3,1,0)	Program

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	Math 2455	Group Theory	Required	Math 2240	3(3,1,0)	Program
	Math 2321	Actuarial Mathematics-I	Required	Math 1060	3(3,0,0)	Program
	Math 2290	Mechanics	Required	Math 1060	3(3,1,0)	Program
	Islam 103	The Economic System in Islam	Required		2(2,0,0)	Institution
Level 5	Math 3280	Linear Algebra- II	Required	Math 2250	3(3,1,0)	Program
	Math 3320	Multivariable Calculus	Required	Math 1060	3(3,1,0)	Program
	Math 3330	Ordinary Differential Equation- I	Required	Math 2250 + Math 2311	3(3,1,0)	Program
	Math 3370	Numerical Analysis	Required	Math 2250 + Math 2311	3(3,1,0)	Program
	Stat 3280	Statistical Package	Required	Stat 2040	3(2,1,0)	Program
	Islam 104	The foundations of Political Systems of Islam	Required	--	2(2,0,0)	Institution
Level 6	Math 3340	Ordinary Differential Equation –II	Required	Math 3330 + Math 3320	<u>3(3,1,0)</u>	Program
	Math 3350	Vector Analysis	Required	Math 3320	<u>3(3,1,0)</u>	Program
	Math 3460	Real Analysis- I	Required	Math 3330 + Math 2240 + MAT 3320	<u>3(3,1,0)</u>	Program
	Math 3510	Mathematical Package	Required	Math 3330 + Math 2301	<u>3(2,1,0)</u>	Program
		Free Course	Required			Institution
		Elective Course from within the Department of Mathematics	Elective		3(3,1,0)	Program
	Math 4590	Field Training	Required	95 Credit hours	2(0,2,0)	Program
Level 7	Math 4360	Introduction to Partial Differential Equations	Required	Math 3330 + Math 3320	3(3,1,0)	Program
	Math 4430	Introduction to Topology	Required	Math 3460	3(3,1,0)	Program
	Math 4455	Rings & Fields	Required	Math 2455	3(3,1,0)	Program
		Elective Course from within the Department of Mathematics	Elective	Depending on the chosen course	3(3,1,0)	Program
		Elective Course from outside the Department of Mathematics	Elective	Depending on the chosen course	3(3,1,0)	Program

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		Free Course	Elelctive		3(3,1,0)	Institution
Level 8	Math 4820	Graduation Project	Required	Acquiring 115 credit hours	3(3,1,0)	Program
	Math 4350	Complex Analysis	Required	Math 3330 + Math 3320	3(3,1,0)	Program
		Elective Course from within the Department of Mathematics	Elective	Depending on the chosen course	3(3,1,0)	Program
		Elective Course from within the Department of Mathematics	Elective	Depending on the chosen course	3(3,1,0)	Program
		Elective Course from within the Department of Mathematics	Elective	Depending on the chosen course	3(3,1,0)	Program
	Math 4620	Ethics	Required	Math 3460	1(1,0,0)	Program
	Arab 103	Aerb Language Editing	Required		2(2,0,0)	Institution