

**Level 1:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 1050	Differential Calculus	4 (2,2,0)	-	-
Islm101	Entrance to the Islamic Culture	2 (2,0,0)	-	-
Eng1210	English Reading skills	5 (2,3,0)	-	-
Eng 1220	English Writing skills	5 (2,3,0)	-	-

**Level 2:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Eng 1230	English Conversation and Listening Skills	5 (2,3,0)	-	-
Comp 1400	Computer Skills	3 (2,0,1)	-	-
Arb101	Language Skills	2 (2,0,0)	-	-
Math 1060	Integral Calculus	4 (2,2,0)	Math 1050	-

**Level3:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Comm1400	Communications Skills	2 (2,0,0)	-	-
Eng1604	Scientific English language	5 (4,0,1)	-	-
Phys1010	General Physics 1	5 (3,1,1)	-	-

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Eng1606	English language for Academic	4 (2,2,0)	-	-

**Level 4:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 2311	Infinite Series and Calculus Applications	4 (4,0,0)	Math1060	-
Math 2240	Algebra and Analytic Geometry	4 (4,0,0)	Math 1060	-
Stat 2010	Elementary Probability and Statistics	4 (4,0,0)	Math 1060	-
Phys 2180	General Physics for Mathematics students 2	5 (4,0,1)	Phys 1010	-

**Level 5:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 2301	Visual Programming of Mathematical Problems	4 (3,0,1)	Comp 1400	-
Islm 102	Islam and Society	2 (2,0,0)	-	-
Stat 2040	Statistical Methods	4 (4,0,0)	Stat 2010	-
Math 2250	Linear Algebra 1	4(4,0,0)	Math 2240	-
Math 2290	Mechanics	4(4,0,0)	Math 1060	-

**Level 6:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 2321	Actuarial Mathematics 1	4(4,0,0)	Math 1060	-
Math 2455	Group Theory	4(4,0,0)	Math 2240	-
Stat 3280	Statistical Packages	4 (3,0,1)	Stat 2040	-
Islm103	The Economic System in Islam	2(2,0,0)	-	-
	Free course	2(2,0,0)	-	Elective course from within the department or outside the department

**Level 7:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 3280	Linear Algebra 2	4(4,0,0)	Math 2250	-
Math 3320	Multivariable Calculus	4(4,0,0)	Math 1060	-
Math 3330	Ordinary Differential Equations 1	4 (4,0,0)	Math 2250 + Math 2311	-
Islm 104	The Foundations of the Political System in Islam	2(2,0,0)	-	-

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
	Free course	2(2,0,0)	-	Elective course from within the department or outside the department

**Level 8:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 3370	Numerical Analysis	4(4,0,0)	Math 2250 + Math 2311	-
Math 3340	Ordinary Differential Equations 2	4(4,0,0)	Math 3320 + Math 3330	-
Math 3350	Vector Analysis	4 (4,0,0)	Math 3320	-
Math 3460	Real Analysis 1	4(4,0,0)	Math 3320 + Math 3330 +Math2240	-

**Level 9:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 3510	Mathematical Packages	4(4,0,0)	Math 2301 + Math 3330	-
Math 4455	Rings and Fields	4(4,0,0)	Math 2455	-

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Stat 2150	Probability 1	4 (4,0,0)	Stat 2040	Elective course from within the department
Math 3270	Number Theory	4(4,0,0)	Math 2311	Elective course from within the department

**Level 10:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 4620	Ethics of Mathematicians	2(2,0,0)	Math 3460	-
Math 4590	Field Training	2(0,0,6)	After acquiring 115 credit hours	-
Math 3260	Mathematical Programming	4 (4,0,0)	Math 2250 + Math 2311	-
Arb103	Arab Language Editing	2(2,0,0)	-	-
	Free course	2(2,0,0)	-	Elective course from within the department or outside the department

**Level 11:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 4360	Introduction to Partial Differential Equations	4(4,0,0)	Math 3330 +Math 3320	-
Math 4430	Introduction to Topology	4(4,0,0)	Math 3460	-
Math 4390	Differential Geometry	4 (4,0,0)	Math 3320 + Math 3330	Elective course from within the department

**Level 12:**

Course Code	Course Title	Credit Hours	Prerequisite	Remarks
Math 4350	Complex Analysis	4(4,0,0)	Math 3330 + Math 3320	-
Math 4530	Methods of Optimization	4(4,0,0)	Math 3260 + Math 3320	Elective course from within the department
Math4580	Special Functions	4 (4,0,0)	Math3340+ Math4360	Elective course from within the department
Math 4820	Graduation Project	3 (2,0,1)	After acquiring 115 credit hours	-