



Study Plan

Degree : Bachelor Faculty : Science Plan Hrs.: 144
 Semester : 383 Department : Mathematics Plan Type : Major
 Edition : 2 Gender : Both
 Major : ACTU Actuarial And Financial Mathematics

Council Session: Deanship Session : Faculty Session : Dept Session:
 Council Date: Deanship Date: Faculty Date: Dept Date :

Group Type : Compulsory 1

First							
code	course name	H	G	L	H	requisite	Yrl
ENGS 100	English	6				-	-
ARAB 100	Writing Skills	2				-	-
CT 101	IT Skills	3				-	-
ENT 101	Entrepreneurship	1				-	-
MATH 101	Differential Calculus	3				-	-
Total							15

Second							
code	course name	H	G	L	H	requisite	Yrl
STAT 101	An Introduction to Probability & Statistics	3				-	-
EPH 101	Fitness and Health Education	1				-	-
CHEM 01	GENERAL CHEMISTRY (1)	4				-	-
CI 101	University Skills	3				-	-
ENGS 110	English	6				ENGS 100 - / P	-
Total							17

Third							
code	course name	H	G	L	H	requisite	Yrl
ECON 01	Principles of Microeconomics	3				-	-
STAT 105	Statistical Methods	4				STAT 101 - / P	-
MATH 106	INTEGRAL CALCULUS	3				MATH 101 - / P	-
MATH 132	Logic Mathematics	3				-	-
ACCT 201	Principles of Accounting & Financial Reporting	3				-	-
Total							16

Fourth							
code	course name	H	G	L	H	requisite	Yrl
ECON 101	Principles of	3				ECON101 - / P	-

Group Type : Compulsory 1

Fourth							
code	course name	H	G	L	H	requisite	Yrl
02	Macroeconomics						
CSC 115	Introduction to Programming with C++	4				CT 101 - / P	-
FIN 200	Principles of Finance	3				ACCT201 - / P	-
MATH 206	Multi-Variable Differential & Integral Calculus	4				MATH106 - / P	-
STAT 216	Actuarial Probability	4				MATH 206 - / MC	-
Total							18

Fifth							
code	course name	H	G	L	H	requisite	Yrl
MATH 240	Introduction to Linear Algebra	4				MATH 132 - / P	-
ACTU 262	Actuarial Corporate Finance	3				FIN 200 - / P	-
MATH 280	Introduction to Real Analysis	4				MATH 206 - / P	-
STAT 328	Statistical Packages	3				STAT105 - / P	-
ACTU 371	Financial Mathematics	4				MATH106 - / P	-
Total							18

Sixth							
code	course name	H	G	L	H	requisite	Yrl
STAT 332	Regression Analysis	3				MATH 240 - / P STAT 328 - / P	-
ACTU 372	Actuarial Mathematical Models (1)	4				ACTU 371 - / P STAT 216 - / P	-
MATH 380	Stochastic Processes	4				MATH 280 - / P STAT 216 - / P	-
ACTU 471	Financial Derivatives	3				ACTU 371 - / P	-
Total							14

Seventh							
code	course name	H	G	L	H	requisite	Yrl
STAT 336	Time Series & Forecasting	3				STAT 332 - / P	-

P : Pre-requisite

G : GPA level

H : Requisite HRS

C: Co-requisite MC : Mandatory Co--requisite NC: None Co- requisite L : Pre-course Level



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Group Type : Elective 1 (8)

Seventh							
code	course name	H	G	L	H	requisite	Yrl
ACTU 472	Actuarial Mathematical Models (2)	3				ACTU 372 - / P	-
ACTU 473	Models of Financial Economics	4				ACTU 471 - / P	-
ACTU 474	Risk Theory	3				ACTU 372 - / P MATH 380 - / P	-
Total							13

Eighth							
code	course name	H	G	L	H	requisite	Yrl
OPER441	Modeling & Simulation	4				MATH 380 - / P	-
ACTU 475	Credibility Theory & Loss Distribution	4				ACTU 474 - / P	-
ACTU 483	Lab Financial Mathematics	1			123	-	-
ACTU 484	Lab Actuarial Mathematics	1			123	-	-
Total							10

Ninth							
code	course name	H	G	L	H	requisite	Yrl
ACTU 498	Training Course	6				138	-
Total							6

Category :

Group Type : Elective 1 (8)

code	course name	H	G	L	H	requisite	Yrl
IC 100	Studies in the prophet biography	2				IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
QURN 100	Quran Kareem	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC	-
IC 101	Principles of Islamic Culture	2				IC 100 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 102	Family in Islam	2				IC 100 - / NC IC 101 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 103	Economic System in Islam	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC	-

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G : GPA level

H : Requisite HRS

C : Co-requisite

MC : Mandatory Co-requisite

NC: None Co-requisite

L : Pre-course Level



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code	course name	H	G	L	H	requisite	Yrl
IC 104	Islamic Political System	2				IC 109 - / NC QURN 100 - / NC IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 105	Human Rights	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 106	Medical Jurisprudence	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 107	Professional Ethics	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	-
IC 108	Current Issues	2				IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC	-

Category :

Group Type : Elective 1 (8)

code	course name	H	G	L	H	requisite	Yrl
IC 109	Development Role of Women	2				IC 106 - / NC IC 107 - / NC IC 109 - / NC QURN 100 - / NC IC 100 - / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC QURN 100 - / NC	-
Total							22

Category :

Group Type : Elective 1 (9)

code	course name	H	G	L	H	requisite	Yrl
ECON201	Microeconomic Analysis	3				ECON102 - / P	-
MATH204	DIFFERENTIAL EQUATIONS	3				MATH 206 - / P	-
FIN 220	Investment Essentials	3				FIN 200 - / P	-
FIN 240	Principles of Risk & Insurance	3				FIN 200 - / P	-
MATH254	NUMERICAL METHODS	3				CSC 115 - / P MATH 240 - / P	-
STAT 340	Theory of Statistics (1)	3				STAT 216 - / P	-
ACTU 476	Insurance Mathematics	3				ACTU 474 - / P	-
ACTU 477	Pension Mathematics	3				ACTU 472 - / P	-
ACTU 478	Mathematical Modeling of Islamic Finance	3				ACTU 371 - / P	-
Total							27
MATH 251	Optimization Techniques	3				MATH 280 - / P MATH204 - / P	-

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G : GPA level

H : Requisite HRS

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Group Type : Elective 1 (9)

Total	3
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