

C. Curriculum

1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	9	20	15%
	Elective	0	0	0
College Requirements	Required	11	40	31%
	Elective	0	0	0%
Program Requirements	Required	18	61	47%
	Elective	3	9	7%
Others	-	-	-	-
Total		41	130	100%

2. Program Study Plan

Level	Course Code	Course Title	Required or Elective	Prerequisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level1	MATH 100	Mathematics 1	Required		3	College
	CHEM 101	General Chemistry	Required		3	College
	ELS 001	English I	Required		5	College
	BIO 101	General Biology	Required		3	College
	LTS 001	Learning, Thinking, and Research Skills	Required		3	University

Level 2	MATH 101	Mathematics 2	Required	MATH 100	3	College
	PHYS 101	General Physics	Required		3	College
	ELS 002	English II	Required		5	College
	CSC 001	Computer Skills and Its application	Required		3	University
	COMM 001	Communication Skills	Required		2	University
Level 3	CSC 112	Programming Language	Required	CSC 112	4	University
	MATH 200	Fundamentals of Integral Calculus	Required	MATH 101	4	Faculty
	STAT 202	Statistics (1)	Required	MATH 101	4	Department
	ARB 101	Language Skills	Required	None	2	University
	ISLS 101	Islamic Culture (1)	Required	None	2	University
Level 4	MATH 203	Advanced Calculus	Required	MATH 200	4	Faculty
	STAT 203	Statistics (2)	Required	STAT 202	4	Department
	STAT 212	Probability (1)	Required	MATH 101	4	Department
	MATH 241	Linear Algebra	Required	None	3	Faculty
	ISLS 201	Islamic Culture (2)	Required	ISLS 101	2	University
Level 5	STAT 241	Operations Research (1)	Required	MATH 101	2	Department
	STAT 312	Probability (2)	Required	STAT 212	4	Department
	STAT 363	Nonparametric Statistics	Required	STAT 203	3	Department
	STAT 371	Sampling Techniques	Required	STAT 203	3	Department
	ARB 201	Writing Skills	Required	ARB 101	2	University
	ISLS 301	Islamic Culture (3)	Required	ISLS 201	2	University
Level 6	STAT 321	Stochastic Processes	Required	STAT 212	3	Department
	STAT 335	Statistical Inference (1)	Required	STAT 312	3	Department
	STAT 375	Regression Analysis	Required	STAT 203	4	Department
	STAT 373	Demography	Required	STAT 203	3	Department
	STAT XXX	Elective Statistics Course	Elective	STAT XXX	3	Department
Level 7	STAT 461	Categorical Data Analysis	Required	STAT 202	3	Department
	STAT 472	Time Series Analysis	Required	STAT 375	4	Department
	STAT 474	Design and Analysis of Experiments	Required	STAT 203	4	Department
	STAT XXX	Elective Statistics Course	Elective	STATXXX	3	Department
	ISLS 401	Islamic Culture (4)	Required	ISLS 301	2	University
Level 8	STAT 434	Statistical Inference (2)	Required	STAT 335	3	Department
	STAT 464	Multivariate Analysis	Required	STAT 335	3	Department
	STAT 481	Statistical Packages	Required	STAT 375	3	Department
	STAT XXX	Elective Statistics Course	Elective	STAT XXX	3	Department
	STAT 491	Research Project	Required	Department agreement	4	Department

* Include additional levels if needed

** Add a table for each track (if any)

Elective Courses*

Courses Title		Course Code	Credit
1	Operations Research (2)	STAT 341	3
2	Queuing Theory	STAT 343	3
3	Biostatistics	STAT 358	3
4	Statistical Quality Control	STAT 377	3
5	Scientific Research Methods	STAT 402	3
6	Linear Models	STAT 431	3
7	Reliability Theory	STAT 471	3
8	Survey Designs	STAT 473	3
9	Econometrics	STAT 477	3

* Elective courses are available in the sixth, seventh, and eighth semesters. Each of these academic terms offer three elective courses for students to register for, with consideration given to their anticipated graduation in that specific semester.