

Study Plan

Mathematics Department

College of Science

2018- 1439

New Study Plan of Mathematics Department (134 Units)

First Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
ENGL 101	English (1)	3(2,0,2)	--
MTH101	Introductory mathematics	3(2,0,2)	--
BIO 101	General Biology	3(2,0,2)	--
ISL101	Fundamentals of Islamic Culture	2(2,0,0)	--
CIS 101	Computer Skills	3(2,2,0)	--
EDU101	University Life Skills	2(2,0,0)	--
Total credit		16 Unit	

Second Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
ENGL102	English (2)	3(2,0,2)	ENGL 101
PHS 101	General Physics (1)	4(3,2,0)	--
MTH 102	Differential Calculus	3(2,0,2)	MTH 101
CHM 101	General Chemistry	4(3,2,0)	--
ARAB 101	Arab Language Skills	2(2,0,0)	--
ISL 100	Studies in the Biography of the Prophet	2(2,0,0)	--
Total credit		18 Unit	

Third Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
MTH 203	Integral Calculus	3(2,0,2)	MTH102
MTH 231	Basics of Mathematics	3(2,0,2)	MTH102
STAT 201	General Statistics	2(1,0,2)	MTH101
MTH 221	Mathematical Soft wares and Programming	3(2,2,0)	CIS 101
ARAB 102	Arabic writing	2(2,0,0)	--
ISLXXX	University Elective Course	2(2,0,0)	--
Total credit		15 Unit	

Fourth Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
MTH 204	Advanced Calculus	3(2,0,2)	MTH 203
MTH 211	Real Analysis (1)	3(2,0,2)	MTH 231
MTH 241	Linear algebra (1)	3(2,0,2)	MTH 203
MTH 242	Number Theory	3(2,0,2)	MTH 231
STAT 202	Probability (1)	3(2,0,2)	STAT 201 & MTH 203
ISL XXX	University Elective Course	2(2,0,0)	--
Total credit		17 Unit	

Fifth Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
MTH305	Differential Equations	3(2,0,2)	MTH 204
MTH343	Numerical Analysis(1)	3(2,2,0)	MTH 241 & MTH 221
MTH332	Abstract Algebra (1)	3(2,0,2)	MTH 241 & MTH 242
MTH322	Mathematical Linear Programming	3(2,0,2)	MTH 241
MTH351	Statics	3(2,0,2)	MTH203
BUS 101 / EDU 102	University Elective Course	2(2,0,0)	--
Total credit		17 Unit	

Sixth Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
MTH306	Partial Differential Equations	3(2,0,2)	MTH 305
MTH312	Real Analysis (2)	3(2,0,2)	MTH211
STAT 303	Data Analysis	3(2,2,0)	MTH 343 & STAT 202
MTH XXX	Math Elective Course 1	3(2,0,2)	--
MTH XXX	Math Elective Course 2	3(2,0,2)	--
Total credit		15 Unit	

Seventh Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
MTH 424	Optimality Techniques	3(2,0,2)	MTH322
MTH434	Abstract Algebra(2)	3(2,0,2)	MTH332
MTH445	Numerical Analysis (2)	3(2,0,2)	MTH 242 & MTH 305 & MTH 343
STAT 404	Statistical Theory	3(2,0,2)	STAT 303
MTH 413	Special functions	3(2,0,2)	MTH312
MTH XXX	Math Elective course 3	3(2,0,2)	--
Total credit		18 Unit	

Eighth Level

Code	Course name	Credit (LT, LB , ET)	Prerequisite
MTH 461	Topology	3(2,0,2)	MTH312
MTH 407	Differential Geometry	3(2,0,2)	MTH 241 & MTH306
MTH 414	Complex Analysis	3(2,0,2)	MTH312
MTH 471	Graduation Project	3(0,6,0)	Complete 100 Units
MTH XXX	Math Elective course 4	3(2,0,2)	--
MTH XXX	Math Elective course 5	3(2,0,2)	--
Total credit		18 Unit	

Requirements	Compulsory for University	Elective for University	Compulsory for college		Compulsory for Department	Elective for Department	Total
			Outside the department	Inside the department			
Hours	19	6	11	8	75	15	134