

Study Plan Structure of the Bachelor of Science Program in Mathematics

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030119	English Language(1)	3	6	
31041103	Differential &Integral (1)	4	4	
31011103	General Biology(1)	4	5	
11020204	Health Culture	1	1	
11010101	Islamic Culture(1)	2	2	
15011104	Arabic Editing	2	2	
First Year: Second Term				
11030219	English Language (2)	3	6	11030119
31031104	General Physics (1)	4	5	
31021104	General Chemistry(1)	4	5	
11020107	Recitation Correction	2	2	
11010111	Islamic Culture(2)	2	2	
Second Year: First Term				
31041209	English for Specific purposes (Mathematics)	2	2	---
31041211	Principles of statistics and probability	3	4	31041103
31041213	Vectors and Mechanics	3	4	31041103
31041215	Fundamentals of Math.	3	4	31041103
31041217	Differential &Integral (2)	3	4	31041103
31041219	Analytical Geometry	3	4	31041103
11010113	Voluntary service (1)	0	0	---
Second Year: Second Term				
31041212	Real analysis (1)	3	4	31041103
31041214	Introduction to mathematical statistics	3	4	31041211
31041216	Computer Skills	2	3	---
31041218	Differential &Integral (3)	3	4	31041217
31041220	Ordinary Differential Equations	3	4	31031217
31041236	Linear Algebra	3	4	--
11010123	Voluntary service (2)	0	0	---
Third Year: First Term				
31041313	Statistical Analysis	3	3	31041211
31041315	Mathematical applications in Computers	3	4	31041216
31041317	Abstract Algebra (1)	3	3	31041215
31041321	Numerical Analysis	3	3	31041220

31041325	Partial Differential Equations	3	3	31041220
31041327	Vector Analysis	3	3	31041218
Third Year: Second Term				
31041316	Mathematical Methods	3	3	31041325
31041318	Number Theory	3	3	31041215
31041320	Real Analysis (2)	3	3	31041212
31041324	Continuum Mechanics	3	3	31041327
31041332	Complex analysis	3	3	31041212
11010112	Essay and Research Writing	2	2	
Fourth Year: First Term				
31041411	Differential Geometry	3	3	31041236
31041413	Abstract Algebra (2)	3	3	31041317
31041415	mathematical modelling	3	3	31041321
31041423	Analytical mechanics	3	3	31041213
31041441	Introduction to Topology	3	3	31041215
	Elective Course (1)	3	3	---
Fourth Year: Second Term				
31041412	Research Project	3	3	Pass (100 C.Hr.)
31041422	Quantum mechanics	3	3	31041423
31041424	Operations Research	3	3	31041214
31041426	Functional Analysis	3	3	31041320
	Elective Course (2)	3	3	---
Electives				
Elective Course (1)				
31041417	Discrete Mathematics	3	3	31041215
31041435	Sets Theory	3	3	31041215
Elective Course (1)				
31041428	Fuzzy Mathematics	3	3	31041215
31041434	Special relativity	3	3	31041324
31041440	Statistical inference	3	3	31041214