



Tafila Technical University
College of Science
Department of Mathematics



Study Plan Approval Date

___ / ___ / 2024

Mathematics Study Plan

Study Plan Code

SCI._MATH._0203



Tafila Technical University
College of Science

This study plan is applied to the students admitted into the Bachelor's
program

in Mathematics for the academic year 2024/2025

Study Plan for B.Sc. in Mathematics

Offered Degree: B.Sc. in Mathematics



Tafila Technical University
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Advisory Plan for Bachelor of Science Students in Mathematics

First Academic Year - Mathematics							
The First Semester				The Second Semester			
Course Number	Course Name	No. of Credit Hours	Pre-Requisite	Course Number	Course Name	No. of Credit Hours	Pre-Requisite
0213105	Calculus 1	3	(1)	0213106	Calculus 2	3	0213105
0213101	General Physics 1	3	(2)	0213102	General Physics 2	3	0213101
0213103	General Physics Lab.1	1	0213101 ⁽³⁾	0213109	General Biology 1	3	None
0213115	Principles of Statistics 1	3	None	0213104	General Physics Lab. 2	1	0213102 ⁽³⁾
0213116	Principles of Statistics Lab.1	1	0213115 ⁽³⁾		University Elective Requirement	3	
	University Elective Requirement	3			Obligatory University Requirement	3	
	Obligatory University Requirement	3					
Total		17		Total		16	

(1) (High School Mathematics) or Prerequisite Calculus 0213098.

(2) (High School Physics) or Prerequisite Physics 0213097.

(3) (High School Chemistry) or Prerequisite Chemistry 0213099.



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Second Academic Year - Mathematics

The First Semester				The Second Semester			
Course Number	Course Name	No. of Credit Hours	Pre-Requisite	Course Number	Course Name	No. of Credit Hours	Pre-Requisite
0213107	General chemistry 1	3	(4)	0203231	Principles of Statistics 2	3	0213115
0213108	General Chemistry Lab. 1	1	0213107 ⁽⁴⁾	0203212	Logic & Set Theory	3	0213106
0203220	Calculus 3	3	0213106	0203213	Euclidean & non-Euclidean Geometry	3	0203212
0203223	Ordinary Differential Equations 1	3	0213106	0203224	Mathematical Methods 1	3	0203223
0203211	Linear Algebra 1	3	0213106	0203222	Advanced Calculus	3	0203220
---	Obligatory University Requirement	3		---	Obligatory University Requirement	3	
Total		16		Total		18	

(4) or concurrent



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Third Academic Year- Mathematics

The First Semester

Course Number	Course Name	No. of Credit Hours	Pre-Requisite
0203232	Introduction to Probability	3	0203222
0203326	Real Analysis 1	3	0203212
0203310	Complex Analysis 1	3	0203222
0203321	Partial Differential Equations 1	3	0203223
	Elective Specialization Requirement	3	
	University Elective Requirement	3	
Total		18	

The Second Semester

Course Number	Course Name	No. of Credit Hours	Pre-Requisite
0203330	Mathematical Statistics	3	0203231
0203314	Modern Algebra 1	3	0203212
0203315	Topology 1	3	0203213
0203322	Numerical Analysis 1	3	0203223
	University Specialisation Requirement	3	
	Elective Specialisation Requirement	3	
Total		18	



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Fourth Academic Year - Mathematics

The First Semester				The Second Semester			
Course Number	Course Name	No. of Credit Hours	Pre-Requisite	Course Number	Course Name	No. of Credit Hours	Pre-Requisite
0203419	Real Analysis 2	3	0203326	0203446	Mathematical Methods in Artificial Intelligent	3	0203322
0203420	Numerical Analysis 2	3	0203322	0203414	Modern Algebra 2	3	0203314
0203425	Mathematical Packages	3	0203322	0203448	Seminar in Mathematics	1	(1)
0203418	Number Theory	3	0203212		Elective Specialization Requirement	3	
	University Elective Requirement	3			Elective Specialization Requirement	3	
					University Elective Requirement	3	
	Total	15			Total	16	

(1) Successfully complete a minimum of 90 credit hours.