

# Free University of Tbilisi

## Curriculum - Bachelor in Mathematics

University General Education	50	Foundation Education	62	Required Elective Courses for Mathematics	30
English Language	7	Linear Algebra	6	Software Engineering Process	5
Mathematical Mode of Thinking	5	Discrete Mathematics	6	Software Architecture (Design Patterns)	6
The World History and Georgia	3	Probability and Statistics	6	Web Programming (JavaScript)	5
Georgian Language and Georgians	2	Algorithms and Data Structures	6	Natural Language Processing	6
Principles of Economics	4	Programming Methodology	6	NAND to Tetris	6
Natural Sciences	4	Programming Abstraction	8	Game Development (Unity)	6
Anthropology	4	Theoretical Informatics	6	Software Engineering with .NET Technologies	6
Logics	4	Artificial Intelligence	6	Machine Learning	6
Philosophy	4	Calculus 1	6	Machine Vision	6
Psychology	4	Calculus 2	6	Multicore Programming	6
Modern Political Ideologies	4			Functional Programming Paradigm	6
Literature and Art	5			Quantum Algorithms	6
				Mobile Applications Engineering (Android)	6
				Mobile Applications Engineering (iOS)	6
				Numerical Methods (MatLab)	3
				Advanced Algorithms 1, 2	12
				Problem Solving Methods in Mathematics	6
General Education	12	Core Education	58		
Physics	6	Mathematical Analysis I	6		
Biology	6	Complex Variable Theory	6		
		Abstract Algebra	8		
		Differential Equations	6		
		Information Theory	6		
		Discrete Stochastic Processes	6		
		Computer Systems Security	6		
		Optimization Theory	6		
		Bachelor Project	8		
პრაქტიკული განათლება	8				
Field Practice	3				
Working in Organization	5				
Elective Courses	20				
Courses from Other Programs					

ECTS	
University General Education	50
General Education	12
Practical Education	8
Foundation Education	62
Core Education	58
Required Elective Courses for Mathematics	30
Elective Courses	20
	<b>240</b>