



**L E B A N E S E  
INTERNATIONAL  
UNIVERSITY**

**Major Title:** Bachelor of Mathematics  
**Major Code:** BMATH  
**Level:** underGraduate  
**Number Of Credits:** 99  
**Version:** 2  
**Version**  
**Date:** 2025-08-21 11:45:46

**Bachelor of Mathematics (BMATH)**

**Major Electives**

Code	Title	Credits	Prerequisites	Corequisites
	Major Elective	3		
	Major Elective	3		
Total		6		

**Core Requirements**

Code	Title	Credits	Prerequisites	Corequisites
CSCI250	Introduction to Programming	3	CSCI200	ENGL101-CSCI250L
CSCI250L	Introduction to Programming Lab	1	CSCI200	ENGL101-CSCI250
MATH210	Calculus II	3	MATH161-MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	MATH160-ENGL051-MATH161	
MATH260	Discrete Mathematics	3	MATH225	MATH260L
MATH260L	Discrete Mathematics Lab	1	MATH225	MATH260
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210-ENGL201	
PHYS210	Mechanics	3	PHYS161-MATH161-PHYS160-MATH160-ENGL051	
PHYS250	Thermodynamic and Waves	3	PHYS210	
PHYS280	Electricity and Magnetism	3	PHYS250	
PHYS360	Analytical Mechanics	3	PHYS210-MATH270-MATH220	
Total		35		

**Major Requirements**

Code	Title	Credits	Prerequisites	Corequisites
MATH305	Programming Languages for Scientist	3	MATH220	
MATH315	Advanced Linear Algebra	3	MATH225	
MATH330	Partial Differential Equations	3	MATH270	
MATH345	Introduction to Real Analysis	3	MATH270-MATH220	
MATH365	Abstract Algebra	3	MATH315	
MATH375	Numerical Methods for Scientists & Engineers	3	MATH270-MATH225	
MATH380	Complex Variables	3	MATH220	
MATH385	Introduction to Topology	3	MATH345	
MATH405	Number Theory	3	MATH315	
MATH420	Differential Geometry	3	MATH345	
MATH455	Mathematical Analysis	3	MATH345	
MATH490	Modern Topics in Algebra	3	MATH365	
MATH492	Mathematical Seminar	1	MATH385	
Total		37		

## General Education Requirements

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CSCI200	Introduction to Computers	3	ENGL051	
CULT200	Introduction to Arab - Islamic Civilization	3		
ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
<b>Total</b>		<b>15</b>		

## General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
Set C	General Education Electives	3		
Set B	General Education Electives	3		
<b>Total</b>		<b>6</b>		

## Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
EDUC212 (Set A)	Educational Technology for Teachers	3	CSCI200	
MATH400 (Set A)	Special Functions	3	MATH220-MATH270	
MATH465 (Set A)	Selected Topics in Undergraduate Mathematics	3	MATH365-MATH260	
MATH495 (Set A)	Mathematics Senior Project	3	MATH420-MATH380-MATH330	

## General Education Electives

Code	Title	Credits	Prerequisites	Corequisites
ARAB220 (Set A)	Creative Writing in Arabic	3		
ARTS204 (Set A)	Introduction to Theater	3		
ARTS215 (Set A)	History of Arts	3		
BACC200 (Set A)	Financial Accounting	3		
BECO210 (Set A)	Introduction to Microeconomics	3		
BECO260 (Set A)	Introduction to Macroeconomics	3		
BMED210 (Set A)	Introduction to Community Health	3		
BMTH210 (Set A)	Business and Managerial Math	3		
BSTA205 (Set A)	Introduction to Business Statistics	3		
COMM200 (Set A)	Introduction to Communication Studies	3		
COMM205 (Set A)	Introduction to Western Civilization	3		
COMM220 (Set A)	Rhetoric & Persuasion	3		
CSCI205 (Set A)	Computer Science Overview	3		
ENVR200 (Set A)	Environmental Science	3		
GEE200 (Set A)	General Topics in Cooperation and Collaboration	3		
GEE201 (Set A)	General Topics in Communication	3		
GEE203 (Set A)	General Topics in Culture and Diversity	3		
GEE204 (Set A)	General Topics in Critical Thinking and Problem Solving	3		
GEE205 (Set A)	General Topics in Quantitative and Qualitative Literacy	3		
HUMN200 (Set A)	Community Service	3		
HUMN215 (Set A)	Introduction to Civic Society	3		

LANG200 (Set A)	Beginners Russian	3		
LANG221 (Set A)	Introduction To Italian	3		
LANG222 (Set A)	Introduction To French	3		
LANG225 (Set A)	Introduction To German	3		
LANG226 (Set A)	Introduction to Portuguese	3		
NUTR200 (Set A)	Nutrition and Health	3		
PHED200 (Set A)	Sports and Health	3		
PHIL200 (Set A)	Introduction to Philosophy	3		
PHIL205 (Set A)	Introduction to Ethics	3		
PHIL210 (Set A)	World Religions	3		
POLS205 (Set A)	World Current Affairs	3		
POLS230 (Set A)	Lebanese Labor Law	3		
POLS240 (Set A)	The Arab Israeli Conflict	3		
SPAN200 (Set A)	Introduction to Spanish	3		
SSCI200 (Set A)	Introduction to Sociology	3		
SSCI205 (Set A)	Introduction to Psychology	3		
SSCI215 (Set A)	Introduction to Music	3		