LEBANESE INTERNATIONAL UNIVERSITY

**Major Title:** Bachelor of Mathematics
**Major Code:** BMATH
**Level:** underGraduate
**Number Of Credits:** 99
**Date:** 30-09-2026

# Bachelor of Mathematics (BMATH)

## Program Objectives

| Objective | Description |
|---|---|
| **PO-1** | Demonstrate knowledge of fundamental and advanced mathematics, including mathematical reasoning and proof. |
| **PO-2** | Apply computational, numerical, and programming methods to solve mathematical and scientific problems. |
| **PO-3** | Apply mathematical methods to model and solve problems in science and related disciplines. |
| **PO-4** | Communicate mathematical ideas effectively and pursue independent and continuous learning. |
| **PO-5** | Apply mathematical competencies in professional practice, postgraduate study, and continuing development. |

## Program Learning Outcomes

| Outcome | Description |
|---|---|
| **PLO-1** | Explain and apply the fundamental concepts and methods of calculus and mathematical analysis to solve mathematical problems. |
| **PLO-2** | Apply fundamental concepts and methods of algebra to solve mathematical problems. |
| **PLO-3** | Apply computational tools and programming techniques to solve mathematical and scientific problems numerically. |
| **PLO-4** | Apply mathematical concepts and methods to solve and analyze problems in science and other related disciplines. |
| **PLO-5** | Develop clear mathematical statements and proofs using logical reasoning and appropriate proof techniques. |
| **PLO-6** | Analyze advanced mathematical concepts, structures, and relationships across different areas of mathematics. |
| **PLO-7** | Communicate disciplinary ideas clearly and effectively in written and oral forms, individually or collaboratively. |
| **PLO-8** | Develop and integrate mathematical knowledge independently using appropriate learning strategies, scholarly resources, and research methods. |