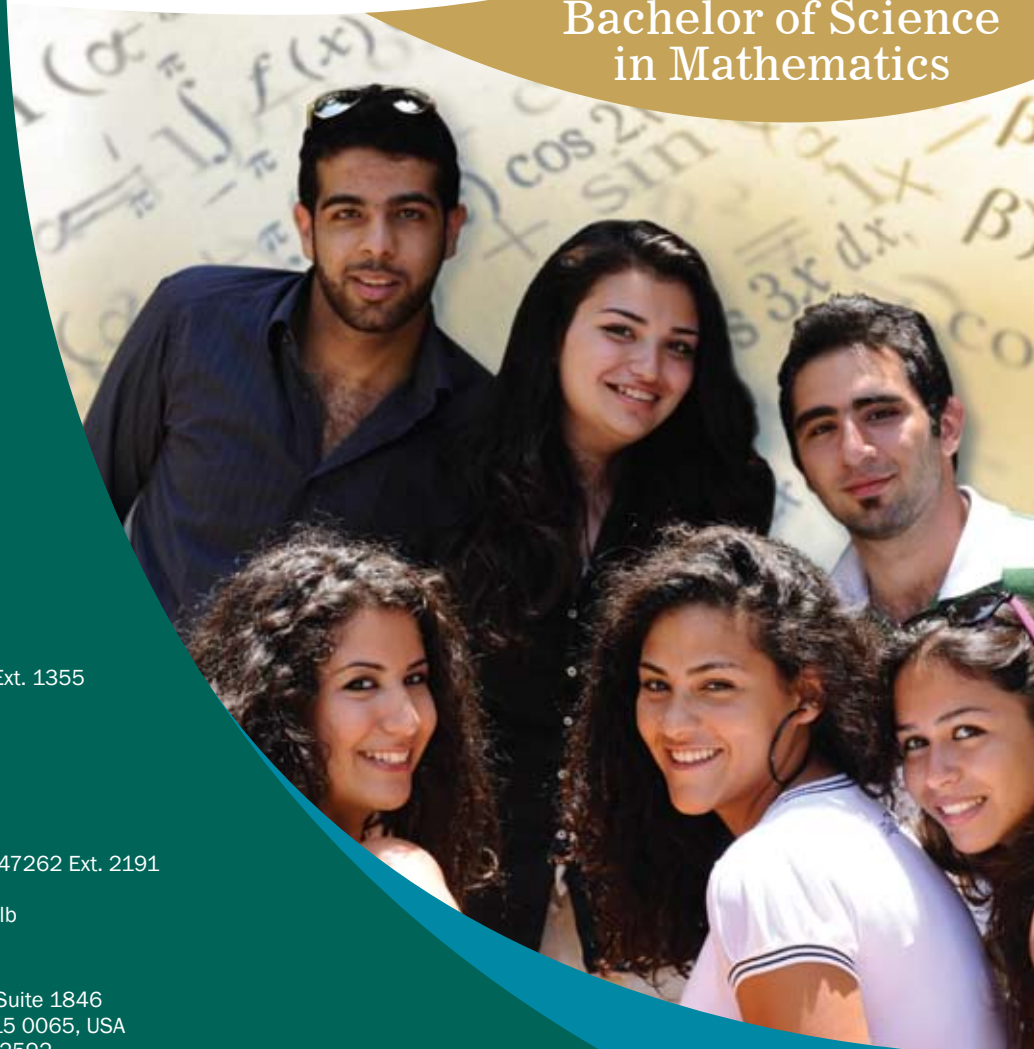


«Pure mathematics is, in its way,
the poetry of logical ideas.»

–Albert Einstein

Bachelor of Science in Mathematics



ADMISSION OFFICE

BEIRUT CAMPUS

P.O.Box 13-5053 Chouran
Beirut 1102 2801 - Lebanon
Tel +961 1 786456 / +961 1 786464 Ext. 1355
Fax +961 1 786454
admissions.beirut@lau.edu.lb

ADMISSION OFFICE

BYBLOS CAMPUS

P.O.Box 36 Byblos, Lebanon
Tel +961 9 547254 / +961 9 547262 Ext. 2191
Fax +961 9 546560
admissions.byblos@lau.edu.lb

NEW YORK OFFICE

475 Riverside Drive, Suite 1846
New York, NY 10115 0065, USA
Tel +1 212 870 2592
Fax +1 212 870 2762

www.lau.edu.lb

FACULTY

Jean Takchi, Associate Professor, Ph.D. Mathematics,
Pennsylvania State University, 1984

Samer Habre, Associate Professor and Chairperson (Beirut), Ph.D. Mathematics,
Syracuse University, 1991

May Hamdan, Associate Professor, Ph.D. Mathematics, Syracuse
University, 1994

Chadi Nour, Assistant Professor, Ph.D. Mathematics, University
Claude Bernard, 2003

Rony Touma, Assistant Professor, Ph.D. Applied Mathematics,
University of Montreal, 2005

Samer Abi Ghanem, Instructor, M.S. Actuarial Science, University of
Texas at Austin, 2003

UNDERGRADUATE
PROGRAM

PROGRAM OVERVIEW

The B.S. degree program in Mathematics at the Lebanese American University is designed to offer a quality education in mathematics in addition to a solid foundation in the liberal arts, by providing students with a strong background in the skills of logic, reasoning, critical thinking, and technology.

Offered by the Department of Computer Science and Mathematics at LAU, the B.S. Mathematics program covers the traditional aspect of any mathematics major in addition to courses that cover contemporary topics in mathematics. In addition, the program offers a combination of pure and applied mathematics courses, thus exposing the learner to mathematical fields that are useful in a multitude of applications such as the physical sciences and engineering, among others.

The program also prepares students for a wide range of careers, including careers in banking and finance, and engineering, and also prepares students to pursue graduate studies in mathematics, applied mathematics, or related fields.

The department is committed to excellence of instruction and scholarship, and faculty members have research and teaching interests in pure mathematics as well as applications of mathematics.

Students enrolled in the B.S Mathematics program may also earn a minor in Actuarial Studies or in Computer Science.

FINANCIAL AID AND SCHOLARSHIPS

In its efforts to promote academic excellence, LAU provides a comprehensive financial aid program that rewards academic performance and supports financial need. Each student may benefit from a financial aid package corresponding to the combined rating of his/her academic and financial status. Financial aid is granted in the form of merit scholarships, work-aid, loans and grants.

For more information please check our website:
http://studentaffairs.lau.edu.lb/financial_aid.php

For more information about the Department of Computer Science and Mathematics at LAU, please visit our website at: <http://sas.lau.edu.lb/csm/>

**PROGRAM REQUIREMENTS****Total of 92 credits (Can be completed in 3 years)**

The required areas of study include core mathematics courses to form a solid foundation in the areas of real analysis, complex analysis, linear algebra, abstract algebra, probability and statistics. Electives vary between the pure and applied mathematics courses. In addition, students are required to complete three credits in computer programming and nine credits chosen in the fields of Actuarial Science, the Natural Sciences, Computer Science, Engineering, or Business.

DEGREE REQUIREMENTS**Major Requirements**

MTH 201	Calculus III	3
MTH 207	Discrete Structures I	3
MTH 301	Linear Algebra	3
MTH 305	Probability and Statistics	3
MTH 311	Abstract Algebra	3
MTH 401	Real Analysis I	3
MTH 404	Introduction to Topology	3
MTH 403	Introduction to Complex Analysis	3
<i>Choose either</i>		
MTH 410	Real Analysis II	3
<i>Or</i>		
MTH 411	Advanced Topics in Abstract Algebra	3

Mathematics Electives

MTH 206	Calculus IV	3
MTH 302	Geometry	3
MTH 303	Numerical Methods	3
MTH 304	Differential Equations	3
MTH 306	Nonlinear Dynamics and Chaos	3
MTH 308	Number Theory	3
MTH 309	Graph Theory	3
MTH 310	Set Theory	3
MTH 400	Advanced Linear Algebra	3
MTH 498	Topics in Mathematics	3
<i>Choose either</i>		
MTH 410	Real Analysis II	3
<i>Or</i>		
MTH 411	Advanced Topics in Abstract Algebra	3