Admission Criteria

1. The applicant must have a Bachelor's (or equivalent) degree in Mathematics from a recognized University. He/she must have a overall GPA of B- (2.67 out of 4.00). If the applicant's qualifications are from a University which does not use the letter grade system, the equivalent of GPA of 2.67 and 3.00 will be determined by the Department. The College Council will be informed about the manner in which the equivalence has been computed.
2. An English proficiency certificate [TOEFL:500(PBT) or 61 (IBT) or 173 (CBT) or [IELTS:6], or equivalent.
3. The applicant must pass an entrance written exams set by the postgraduate committee of the department.
4. A personal interview is required by the Departmental Postgraduate Committee.
5. There may be prerequisites for courses in the M.Sc. Program, which an applicant must satisfy after registration for the program, in which case, the admission granted will be provisional until such time as the prerequisites are satisfied. Prerequisites which are not part of the M.Sc. Program will not carry credit towards the M.Sc. degree. The Department will determine which non-M.Sc. prerequisite courses, if any, a student will be required to pass.

Contact Details

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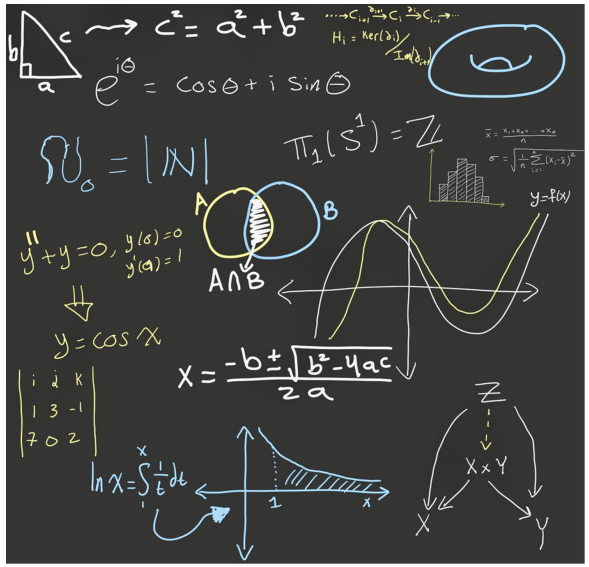
University of Bahrain
College of Science
Department of Mathematics

Master in Mathematics



Program Intended Learning Outcomes (PILOs)

Upon graduation, an UOB graduate in mathematics should be able to:

a. Demonstrate the ability to conduct research independently.

b. Acquire deep knowledge of different mathematical disciplines.

c. Comprehend high levels of abstraction in pure mathematical concepts.

d. Apply mathematical skills to model, formulate and solve real life applications.

e. Integrate technology efficiently in mathematical modelling and numerical computations of real-life applications.

f. Adapt a wide range of advanced and specialized techniques, skills and tools necessary for mathematical practice.

g. Conduct mathematical proofs.

h. Engage in mathematical lifelong learning through continuous professional development.

Program Overview

The degree requires 30 credits of course work and 6 credits of thesis project (MATHS 599). Normal load will be 9 credits per semester. The duration of the program is four-five semesters. Each student will be assigned an academic advisor in the Department who will supervise the academic progress of the student.

Structure

Students in this department must take 5 core courses (15 credit hours) and 5 elective course (15 credit hours). The core courses are:

1. MATHS 500: Fundamentals of Analysis
2. MATHS 505: Ordinary Differential Equations 1
3. MATHS 511: Algebra
4. MATHS 541: Advanced Complex Analysis 1
5. MATHS 581: Methods of Applied Mathematics

Thesis Requirement (MATH 599)

The thesis will normally be related to the student's stream course work, the topic being chosen in consultation with his supervisor. The supervisor will be recommended by the postgraduate committee. Two examiners (internal and external) other than the Thesis supervisor will be appointed by the Department Postgraduate Committee. The student will be asked to give an oral presentation

About the Department

The Department of Mathematics was established in 1979 and is a major center for mathematics research and education in the Kingdom of Bahrain. It serves around ten thousand students every year and features recognized faculty with outstanding accomplishments in teaching, research, and service.

The Department of Mathematics is keen to provide its graduates with essential mathematical and statistical knowledge to develop critical and logical thinking that will enable them to pursue different career goals such as industrial employment, professional education, or preparation for graduate programs.

The department is also committed to scholarship and research in pure and applied mathematics, statistics, actuarial science, data science and related fields, and to active participation in public professional activities of its disciplines.

> “
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> Mathematics is the queen of science
>
> *Carl Gauss*
>
> ”