



جامعة البحرين
University of Bahrain

College of Science
Department of Biology

M.Sc. in Biological Sciences

pathways

1. Ecology and Environmental Biology
2. Cell and Molecular Biology
3. Marine Biology
4. Microbiology and Biotechnology

Program Identity

The M.Sc. Program is offered and managed by the Department of Biology. It requires completion of 33 credit hours of graduate courses, and a research project (thesis). Students can pursue either of the 4 tracks offered to emphasize their preferences.

Program Mission

The Department of Biology works on providing biology basics to its graduates that is rich in knowledge, applications and values coinciding with the national education and development requirements to achieve them for career life and or postgraduate studies. This is achieved through the obligation to a distinguished academic level, scientific research development, and the constructive interaction with the society and its service.

Program Objectives

- Hold professional research positions in the educational, medical, pharmaceutical or biotechnological fields, as well as other industries with biological research and development.
- Continue graduate studies in Biological Sciences.
- Hold educational or teaching positions in life sciences technology and application.

Target groups

This program is designed for students with an undergraduate degree in Biology or any biological discipline.

Admission Requirements

In order to be accepted as a postgraduate student in the M.Sc. Program in Biological sciences, the applicant must meet the UOB admission requirements including:

- The applicant should have a B.Sc. from the UOB or any recognized institution with a minimum grade point average of 2.67 (on a 4.0 scale or equivalent).
- An English proficiency certificate: i.e. TOEFL paper-based (PBT) score of 500, or internet-based score (IBT) of 61, computer-based (CBT) of 173, or IELTS of 6.
- Pass a personal interview

Structure Of The Program

The M.Sc. Program in Biological Sciences consists of 33 credit hours. The 33 credit hours are divided as follows:

1. General courses:	9Cr
2. Pathways Courses:	12Cr
3. Thesis:	12Cr

1. General courses

BIOLS 600: Seminar	3Cr
BIOLS 601: Research Methodology and Ethics	3Cr
BIOLS 602: Biostatistics	3Cr
Total credit hours:	9Cr

2. Pathways

1. Ecology and Environmental Biology:

BIOLS 640: Ecology	3Cr
BIOLS 641: Biodiversity and Conservation Biology	3Cr
BIOLS642: Ecological Impact Assessment	3Cr
BIOLS 643: Restoration Ecology	3Cr
Total credit hours:	12Cr

2. Cell and Molecular Biology:

BIOLS 660: Cell and Molecular Biology	3Cr
BIOLS 661: Genetics and Gene Regulation	3Cr
BIOLS 662: Bioinformatics	3Cr
BIOLS 663: Molecular Diagnostics of Inherited Diseases	3Cr
Total credit hours:	12Cr

3. Marine Biology:

BIOLS 680: Marine Biology	3Cr
BIOLS 681: Marine Fisheries Management	3Cr
BIOLS 682: Integrated Coastal Management	3Cr
BIOLS 683: Marine pollution	3Cr
Total credit hours:	12Cr

4. Microbiology and Biotechnology:

BIOLS 603: Biotechnology and Nano-biotechnology	3Cr
BIOLS 604: Industrial Biotechnology	3Cr
BIOLS 650: Molecular Microbiology	3Cr
BIOLS 662: Bioinformatics	3Cr
Total credit hours:	12Cr

Thesis Areas of Research

Student should select the research topic in accordance with the pathway they have chosen (examples of research publication for each pathway from appendix C are listed in parentheses).

Contact information

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