LEBANESE INTERNATIONAL UNIVERSITY

Major Title: Bachelor of Science in Biology
Major Code: BIOL
Level: underGraduate
Number Of Credits: 99
Date: 24-09-2026

Bachelor of Science in Biology (BIOL)

Program Objectives

Objective	Description
PO-1	To develop a broad understanding of biological systems, including their structure, function, development, inheritance and evolution, from the molecular to the ecosystem level.
PO-2	To develop students' ability to integrate concepts from chemistry, physics and mathematics and apply quantitative, statistical and evidence-based approaches to analyse biological problems and data.
PO-3	To develop students' ability to design, conduct, analyse and communicate laboratory, field and research investigations using appropriate scientific methods and current literature.
PO-4	To prepare students for employment and postgraduate study by developing transferable scientific, professional, communication and digital competencies applicable to biological and related professional contexts.
PO-5	To foster professional and ethical practice, environmental responsibility, effective collaboration, and independent lifelong learning.

Program Learning Outcomes

Outcome	Description
PLO-1	Explain the structure, function, development, inheritance, evolution, and interactions of biological systems at the molecular, cellular, organismal, population, and ecosystem levels.
PLO-2	Integrate principles of biology and relevant concepts from chemistry, physics, and mathematics to explain biological processes.
PLO-3	Analyze biological processes, scientific problems, and experimental data using statistical methods, scientific reasoning, critical thinking, and evidence-based approaches.
PLO-4	Conduct biological laboratory and field investigations using appropriate methodologies, laboratory instrumentation, field techniques, and safe laboratory and field practices.
PLO-5	Design, conduct, interpret, and report biological investigations using appropriate experimental methods and scientific standards.
PLO-6	Critically evaluate scientific literature and integrate current scientific evidence into biological research and professional practice.
PLO-7	Communicate biological concepts, experimental findings, and scientific information effectively in written, oral, and digital formats to scientific and non-scientific audiences.
PLO-8	Demonstrate professional integrity, ethical and environmental responsibility, and appropriate professional practices while working independently and collaboratively in academic, research, industrial, and community settings.
PLO-9	Demonstrate the ability to independently identify, evaluate, and acquire new knowledge for continued learning and professional development in biology.