

MASTER OF SCIENCE IN BIOMEDICAL SCIENCE: CONCENTRATION IN BIOTECHNOLOGY

This program prepares students to pursue advanced academic training in life sciences while developing professional workplace skills.

Program Learning Outcomes

1. Develop critical thinking for research findings and engineering practice in their field of expertise and the capability to be able to clearly articulate and apply such knowledge in their research and practice.
2. Develop effective writing skills for both informal and formal professional communications; and skills to orally present scientific material to a broad range of audiences.
3. Demonstrate the ability to work effectively in teams on complex civil engineering problems.
4. Demonstrate the responsibility and ethical conduct of research and professional integrity in scientific investigation and professional practice.

Biomedical Science (M.S.) – 31–34 units

Core Requirements (10 units)

Code	Title	Units
BIOL 716 or BIOL 891	Skills for Scientific Proposal Writing Biomedical Research Design	2
BIOL 803	Core Concepts of Biotechnology	3
BIOL 871	Colloquium in Microbiology, Cell and Molecular Biology	2
MGMT 788	Management Principles and Organizational Behavior	3

Concentration Requirements (11–14 units)

Approved graduate courses on advisement by program director/faculty advisor.

Culminating Experience (10 units)

Code	Title	Units
BIOL 890	Cooperative Internship (2-3 unit course to be repeated)	6
BIOL 895	Research Project	4