

# APPLIED BIOTECHNOLOGY REQUIREMENTS (MS)

## Admission Requirements

- Bachelor's degree
- 3.00 GPA
- Prerequisite coursework in:
  - 2 semesters of college level Biology and/or Chemistry

(Students will be required to satisfy all program prerequisites prior to formal admission into the program. Academic Directors are provided the option to waive one or more prerequisites based, in part, on student background and work experience.)

- Three letters of recommendation (can be professional or academic)
- Resume
- Up to 1,000 word statement of personal intent describing decision to pursue this degree and what you believe you will bring to the biotechnology field.
- No required aptitude tests (GRE, GMAT, e.g.)

## Provisional Admission Process

- 2.75 GPA and above at the discretion of the Academic Director and home campus
- 2.50 to 2.75 GPA Student and Academic Director make a case to the admissions committee (Academic Directors from other campuses and the CEOEL Program Manager)
- Below 2.50 GPA – with Academic Director Approval – student can remediate by taking two of the following MS-ABT introductory courses and earning a B or better in each course.
  - ABT 700
  - ABT 705
  - ABT 710

## Program Overview

The program represents a comprehensive, multidisciplinary curriculum that prepares students to advance their careers and pursue their academic ambitions through leadership and management positions within the biotechnology field. Defined core courses provide students with a solid foundation in biotechnology, leadership, ethics, research, communications, product development, quality control, and regulatory and compliance practices. In addition, the program offers three unique tracks to assist students in tailoring their coursework to meet their career goals: quality assurance and compliance; business management; and research and development. The M.S. in Applied Biotechnology represents a fully online, asynchronous curriculum comprised of 31 units to include a culminating, project-based Capstone experience. Graduates of the program will gain the core competencies required to manage functions across a wide range of biotechnology industries.

Students must complete 18 units in the six core classes as well 4 units in the pre-capstone and capstone sequence. Students must also select 3 courses (9 units) from elective courses in one of the three tracks.

Code	Title	Units
<b>Core Courses</b>		
ABT 700	PRINCIPLES OF BIOTECHNOLOGY	3

ABT 705	ETHICS, SAFETY, AND REGULATORY ENVIRONMENT IN BIOTECHNOLOGY	3
ABT 710	PROFESSIONAL AND TECHNICAL COMMUNICATION IN BIOTECHNOLOGY	3
ABT 715	TECHNIQUES IN BIOTECHNOLOGY	3
ABT 720	EXPERIMENTAL DESIGN AND ANALYSIS IN BIOTECHNOLOGY	3
ABT 725	LEADERSHIP IN ORGANIZATIONS	3

Select 9 units from one of the three tracks below.

### Track 1 - Quality Assurance and Compliance

ABT 735	QUALITY CONTROL AND VALIDATION	
ABT 740	REGULATORY PRACTICES AND COMPLIANCE	
ABT 745	INDUSTRIAL APPLICATIONS IN REGULATORY AFFAIRS	

### Track 2 - Business management

ABT 750	BIOTECHNOLOGY MARKETING AND ENTREPRENEURSHIP	
ABT 755	GLOBAL OPERATIONS AND SUPPLY CHAIN MANAGEMENT	
ABT 760	QUALITY AND PROJECT MANAGEMENT	

### Track 3 - Research and Development

ABT 765	ASSESSING INNOVATION IN BIOTECHNOLOGY	
ABT 770	PRODUCT DEVELOPMENT	
ABT 775	TOOLS FOR DATA ANALYSIS	

### Capstone Courses

ABT 789	PRE-CAPSTONE	1
ABT 790	CAPSTONE	3

**Total Units** **22**