

# **BS in Biotechnology and Bioentrepreneurship**

## **Assessment Report – Fall 2025**

### **1. Mission Statement:**

The mission of this major is to:

- Provide a strong educational foundation in both the sciences (specifically, biology, chemistry and biotechnology) as well as the business of biotechnology and bioentrepreneurship.
- Provide hands-on training for students in the technical skills utilized in the field of biotechnology research.
- Educate students on experimental design, effective troubleshooting, and data presentation.
- Provide insight into the biotechnology industry and the processes and regulations that comprise the biotechnology sector.
- Teach students how to develop innovative business plans and marketing strategies.
- Educate students on the various disciplines within biotechnology and bioentrepreneurship and to prepare students to launch their career in this industry.

### **2. Program Learning Outcomes**

Students will:

- Describe the fundamental principles of molecular biology, biochemistry, cell physiology, genetics and molecular biology
- Describe how biotechnology is used to make pharmaceuticals, develop biodevices, and develop new techniques and reagents used in the biotechnology sector
- Perform laboratory techniques commonly carried out in a laboratory setting focused on biotechnological research
- Identify, analyze and communicate ethical and sociological issues associated with biotechnological advances.
- Apply skills to develop financial, marketing and strategic biobusiness plans