## Biotechnology

## **Degree Type**

Certificate

The Biotechnology Certificate emphasizes analytical and laboratory skills which are used across many biological disciplines. Students gain experience in hands-on applied techniques which focus on the development of current Good Laboratory Practices (cGLP) in relationship to laboratory procedure and documentation. Upon completion, students will have acquired the training necessary for entry level employment as technicians in academia, research, or manufacturing environments.

Item #	Title	Credits
ENL101	English Composition I	3
BIO151	General Biology I	4
CHM151	General Chemistry I	4
BIO110	Understanding Biotechnology	3
BIO206	Techniques in Biotechnology	4
BIO241	Cell Biology	4
BIO242	Molecular Genetics	4
	Total Credits	26

## **Career Outlook**

Labor market data shows a strong and growing need for technical support in the biological and biotechnological fields. Students who complete this certificate program may work as laboratory technicians in various departments within the biotechnology industry. These departments include, but are not limited to healthcare, production support, manufacturing, laboratory prep assistance, and quality control.

## **Program Outcomes**

- Explain the fundamental scientific principles underlying biotechnology.
- Perform common biotechnological laboratory techniques.
- Follow Standard Operating Procedures (SOPs) and proper documentation guidelines.
- Accurately collect, analyze, and interpret experimental data.
- Utilize critical thinking and scientific methodology to analyze and/or troubleshoot biotechnological issues.
- Exhibit proper workplace behaviors including collaboration, time management, effective communication and presentation skills, and validation of data.