# BIOTECHNOLOGY LABORATORY TECHNICIAN CERTIFICATE

**PROGRAM CODE:** 2C36708

The **Biotechnology Laboratory Technician Certificate** is designed for students who wish to obtain the skills required to gain employment in bioscience and biotechnology-influenced laboratories. Upon completion of this certificate program, students will be eligible to obtain employment as laboratory assistants, biomanufacturing technicians, or bioscience research and development technicians. The Biotechnology Laboratory Technician Certificate requires the completion of 20 units in required courses. An additional two courses (7-10 units) must be chosen from the restricted electives listed below. A grade of C or above must be earned for each of the courses.

| Code | Title | Units |
|---|---|---|
| **Required Courses (20 units):** | | |
| BIOL 190 F | Introduction to Biotechnology | 3 |
| BIOL 190LF | Introduction to Biotechnology Lab | 1 |
| BIOL 191 F | Biotechnology A - Basic Laboratory Skills | 4 |
| BIOL 192 F | Biotechnology B - Protein Biochemistry | 4 |
| BIOL 193 F | Biotechnology C - Molecular Biology | 4 |
| BIOL 194 F | Quality and Regulatory Compliance in the Biosciences | 2 |
| BIOL 196 F | Tissue Culture Methods | 2 |
| **Restricted Electives (7-10 units):** | | **7-10** |
| BIOL 109 F | Genetics and Biotechnology in Society | 3 |
| BIOL 272 F | Cell and Molecular Biology | 4 |
| CHEM 111BF | General Chemistry II | 5 |
| MICR 220 F | Medical Microbiology | 4 |
| MICR 262 F | General Microbiology | 5 |
| **Total Units** | | **27-30** |

*Outcome 1:* Demonstrate an understanding and ability to use standard equipment, materials and techniques employed in research, clinical and industry laboratories based in biotechnology and molecular biology.

*Outcome 2:* Demonstrate good observational skills, ability to follow complex protocols without mistakes, ability to use laboratory math quickly and accurately, interpret experimental results accurately, troubleshoot experimental mistakes and maintain detailed and accurate laboratory manuals.

*Outcome 3:* Demonstrate an understanding and hands-on competency in sterile tissue culture techniques.

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