

# BIOTECHNOLOGY BIOMANUFACTURING TECHNICIAN CERTIFICATE

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Division: Natural Sciences

PROGRAM CODE: 2C36709A

The **Biotechnology Biomanufacturing Technician Certificate** focuses on practical laboratory skills of protein biochemistry combined with training in quality assurance and quality control. The curriculum prepares a student to work in entry level positions in the field of biotechnology in high-tech industry and institutions. Employment opportunities include: biomedical industry, academic research labs, pharmaceutical, agriculture and food science labs. This Biotechnology Biomanufacturing Technician Certificate requires the completion of 19 units in required courses. A grade of C or better is required in each course taken.

Code	Title	Units
<b>Required Courses (19 units)</b>		<b>19</b>
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 194 F	Quality and Regulatory Compliance in the Biosciences	2
CHEM 111AF	General Chemistry I	5
	or CHEM 201 F Biochemistry for Allied Health Science	
<b>Total Units</b>		<b>19</b>

**Outcome 1:** Demonstrate a basic understanding of the quality and regulatory compliance within the biotechnology industry.

**Outcome 2:** Demonstrate safe and proficient handling of laboratory equipment and techniques for protein biochemistry

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