



**CURRICULUM GUIDE
2011-2012**

BIOTECHNOLOGY: CELL PRODUCTION/FERMENTATION

Certificate of Achievement in Biotechnology: Cell Production/Fermentation

The Certificate of Achievement in Biotechnology: Cell Production/Fermentation is a program designed to train students in the methods and techniques used in biotechnology, with emphasis on cell production used in manufacturing settings. Courses in this program train students in DNA and protein laboratory techniques and assays, laboratory record keeping, sterile techniques, and cell-culturing techniques. The student is prepared for biomanufacturing and pharmomanufacturing entry-level positions requiring skills in cell culturing and fermentation.

Requirements for Certificate of Achievement:

- a) Complete Major Field courses as indicated below.
- b) Complete at least six units at Ohlone College.
- c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

BIOT-105	Introduction to Cell and Molecular Biology	4
BIOT-110A1	Introduction to DNA Techniques	1
BIOT-110A2	PCR I and DNA Sequencing	1
BIOT-110A3	Protein Isolation and Assays	1
BIOT-113	GMP/GLP	1
BIOT-115A	Mammalian Cell Culture Techniques	1
BIOT-115B	Bioreactor Cell Culture Techniques	1
BIOT-117	Immunology	1
BIOT-119	Clean Room Operations	.5
BIOT-121	Biotechnology Careers	1
BIOT-123	Writing SOPs	.5
CAOT-148	Computer Applications in Biotechnology	.5
CHEM-109	Biochemistry for Health Science and Biotechnology	4
ENGL-156	Introduction to Report and Technical Writing	<u>3</u>
	Total Required Units:	20.5