



CURRICULUM GUIDE 2009-2010

BIOTECHNOLOGY

AS Degree

The Associate of Science Degree in Biotechnology is a program designed to train students in the methods and techniques used in biotechnology. Students in this degree program complete the biotechnology science core courses and electives listed below. Courses in this program train students in standard biotechnology laboratory techniques and record keeping. The program prepares students for entry-level positions in biomanufacturing and pharmomanufacturing positions.

Requirements for the AS Degree:

- a) Complete the Biotechnology Core Courses with a grade of C or better.
- b) Complete Plan A, B, or C General Education Requirements. These requirements are specified in the Ohlone College catalog .
- c) Complete at least 60 applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.
- e) Complete at least 50% of the Biotechnology Core Courses at Ohlone College.
- f) Complete BIOT-115A, BIOT-115B, BIOT-117, and BIOT-119 at Ohlone College.

BIOTECHNOLOGY CORE COURSES

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	2
BIOT-115B	Bioreactor Cell Culture Techniques	2
BIOT-117	Immunology	1
BIOT-119	Clean Room Operations	.5
BIOT-121	Biotechnology Careers	1
BIOT-123	Writing SOPs	.5
BIOT-131D	Review of Biotechnology Concepts	1
BIOT-114	Introduction to Plant Biology	3 OR
BIOT-122	Introduction to Nanotechnology	(3) OR

(over)

BIOT-133	Introduction to SAS Programming	(3)
CAOT-148	Computer Applications in Biotechnology	.5
CHEM-109	Biochemistry for Health Science and Biotechnology	4
ENGL-156	Introduction to Report and Technical Writing	3
MATH-159	Introduction to Statistics	<u>5</u>
		31.5