



## **CURRICULUM GUIDE 2011-2012**

### **COMPUTER APPLICATIONS IN BIOTECHNOLOGY**

Certificate of Accomplishment in Computer Applications in Biotechnology

#### **Requirements for Certificate of Accomplishment:**

- a) Complete satisfactorily the courses listed for the particular certificate.
- b) Complete at least 50% of the required units at Ohlone College.
- c) Maintain a 2.0 grade point average.

#### **COMPUTER APPLICATIONS IN BIOTECHNOLOGY**

The field of computer applications in biotechnology is a complex hybrid of two distinct scientific disciplines-- computer technology and bioscience. This certificate is designed to provide an understanding of bioinformatics and other computer related subjects to students with some computer and/or life science background. This program is useful for students who desire to explore this new information science in which computers help to simulate, visualize, and analyze genetic and biological information. It also provides an introduction to the fundamental scientific and computational concepts, methods, and tools central to the growing field of computer applications in biotechnology.

BIOT-112	Introduction to Bioinformatics	2
BIOT-121	Biotechnology Careers	1
CS-131/BIOT-131	Computing Concepts in Biotechnology	4
CS-133/BIOT-133	Introduction to SAS Programming	3
CS-141B/BIOT-141B	SAS Graphing and ODS OR	2
CS-143/BIOT-143	Advanced SAS Programming OR	(3)
CS-133A/BIOT-133A	Data Analysis Using SAS	<u>(3)</u>
		12-13