

## Bakersfield College

<b>Course Number &amp; Title:</b>	Biol 51 Biotechnology Careers
<b>Units &amp; Course Hours:</b>	0.5 Units, 9 hours
<b>Weekly Hours:</b>	1 lecture
<b>Number of Weeks:</b>	9
<b>Repeatability:</b>	0
<b>Credit/Applicability:</b>	AA/AS Degree Applicable Certificate Applicable
<b>Disciplines:</b>	Biological Sciences, Agriculture, Chemistry
<b>TOPS No.:</b>	0430.00
<b>Comments:</b>	This course is part of an approved program Biotechnology & Biomedical Technology

### Catalog Description

Introduces the student to biotechnology skills, products, and career opportunities. Field trips and guest speakers are an integral part of the program. Prerequisites: None. Hours: (9) 1 lecture for 9 weeks. Field trips required. Offered: F, S. CCS: Occupational Education. Not transferable: Associate Degree only.

### Text & Supplemental Education Materials

Biotechnology in Perspective by Gilbert, Whiteside, Cohen and Baltimore. Hobson Publishing, American Edition 1990. ISBN 1 85324 398 1.

### Course Objectives

1. Expose student to the field of biotechnology including skills, opportunities and employment opportunities.
2. Introduce the student to the requirements to complete training and become employed in a biotechnology field.
3. Facilitate the student's need in the construction of a student plan and educational goal.

### Student Goals

The student will be given exposure to the career opportunities and training requirements for career clusters in California biotechnology.

**Objective A:** The student will list 20 biotechnology products, their applications, and the companies that produce them.

**Objective B:** The student will list three biotechnology jobs or careers discussed by the instructor or speakers in the class that personally interest him/her. The student lists and evaluates educational and vocational training requirements for each of the three jobs or careers.

**Objective C:** The student will write a 2-5 page report on the biotechnology career of his/her choice which includes any requirements (licensing or certification required for the position), an estimate of employment opportunities and a typical starting salary. The student is encouraged to use the Internet as a source of information for this assignment.

**Course Content**

- Biotechnology Past and Present                      2 lectures
- DNA and Molecular Biology                         2 lectures
- DNA Technology Products                            1 lecture
- Biotechnology on the Farm                         2 lectures
- Fermentation and Food                              2 lectures
- Impact on Society                                    1 lecture
- Careers in Biotechnology                         1 lecture