



Ventura College Biotechnology Program

- *1996 National Association of Biology Teachers Award*
 - *1997 Student Success Award (State Chancellor's Office)*
 - *1998 Partnership Excellence Award*

Biotechnology Courses

All certificate courses are offered in the evening hours, allowing them to be taken for enrichment by working students and allowing participation by professionals from Amgen, Baxter, BioSource, Biopool, DAKO, Genetic Information Systems, Seminis, Technical Associates, Twyford, and the Ventura County Sheriff's Crime Lab. It is recommended that Bio 31 or 32 be taken after completion of all other courses in the program. Internship opportunities may be available.

Biotechnology Courses (Certificate or Associate degree)

Pre-requisite or Rec Prep	Course	Name	Units	Hrs. Lect/wk	Hrs Lab/wk.
Bio 1or 20	Bio 18	Human Genetics	3	3	
Math 1 ,3	Math 44	Statistics	4	4	
HS Chem	Chem 20	General Chemistry	5	3	6
Chem 20	Chem 21	Organic, Biochemistry	5	3	6
Bio 18	Bio 30	Intro to Biotechnology	3	3	
	*Ag 3	Field Botany	4	3	3
Bio 30, Chem 21	Bio 31	Biotechnology Methods	2	2	6
Bio 30, Chem 21	*Bio 32	Plant Biotechnology Methods	2	1	3

*Plant Biotechnology Only

Recommended Sequence

First Semester	Units	Second Semester	Units
Chemistry 20/L	5	Chemistry 21/L	5
Biology 18	3	Biology 30	3
Total units	8		8

Third semester	Units	Fourth Semester	Units
Biology 31 or *32	2, or 2	**Internship	
Math 44	5		
*Ag 3	3		
Total	10		

*Plant Biotechnology only **Individually arranged through instructor and CCBC

Associate in Science Degree

Course	Title	Units	Hours of Lecture	Hours of Laboratory
Biology 20A	General Biology 1	5	3`	6
Biology 20B	General Biology 2	5	3`	6
Chemistry 1A	General Chemistry 1	5	3	6
Chemistry 1B	General Chemistry 2	5	3	6
Physics 2A	General Physics 1	5	3	6
Physics 2B	General Physics 2	5	3	6
Math 20	Precalculus	5	5	
Electives	Electives	Electives	Electives	Electives

Major transfer requirements differ from Associate degree requirements. Consult with a transfer counselor.