

Biotechnology

Biological Sciences

OWENS CAMPUS

Fall 2021

The Biotechnology: Biological Sciences program is designed to meet the needs of students who intend to pursue a bachelor's degree in biotechnology or biological sciences. The curriculum provides a theoretical and practical education in various aspects of biology and chemistry that can be applied to diverse careers in the medical, environmental, industrial, and agricultural fields. Standard techniques used in science laboratories are covered, and special emphasis is placed on science and math instruction to prepare students for upper-level course work.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1

	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	0
BIO 150 - Biology I	4	3	2
CHM 150 - Chemical Principles I	5	4	3
MAT 193 - Reasoning with Functions II	4	4	
ENG 101 - Composition I	3	3	0

Courses - Semester 2

	Credits	Lecture	Lab
BIO 151 - Biology II	4	3	2
BIO 250 - Principles of Microbiology	4	3	3
CHM 151 - Chemical Principles II	5	4	3
ENG 102 - Composition II	3	3	0

Courses - Semester 3

	Credits	Lecture	Lab
BIO 262 - Genetics	4	3	3
CHM 240 - Organic Chemistry I	4	3	3
PHY 205 - General Physics I	4	3	3

Courses - Semester 4

	Credits	Lecture	Lab
BIO 263 - Molecular Biology	4	3	4
CHM 241 - Organic Chemistry II	4	3	3

Approved Electives

Select two science electives from Group A to take in the third and fourth semesters. Select two social science electives to take in the third and fourth semesters.

Group	Courses	Credits	Lecture	Lab
	CHM 250 - Analytical Chemistry I	5	4	4
A	CHM 251 - Analytical Chemistry II	4	3	4
A	CHM 265 - Biochemistry	4	3	4
A	PHY 206 - General Physics II	4	3	3
A	SCI 130 - Introduction to Research	2	1	2
A	(RES 150 - Independent Study & Research I	1	0	3
A	AND RES 200 - Independent Study & Res. II	1	0	3
A	AND RES 250 - Independent Study & Res. III)	1	0	3
B	ECO 111 - Macroeconomics	3	3	0
B	ECO 122 - Microeconomics	3	3	0

B	POL 111 - Political Science	3	3	0
B	PSY 121 - General Psychology	3	3	0
B	SOC 111 - Sociology	3	3	0
B	CLT 110 - Cross-Cultural Immersion	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **64 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*