

Biotechnology Pathway

@ Sycamore Junior High & Anaheim High School

Can a student be **college ready**, earn the **Seal of Biliteracy**, and **complete a pathway**?

YES! In fact, the completion of **ALL** three helps a student be better prepared for higher education **AND** more competitive for scholarships and in college admissions.

	7 th Grade	8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Coursework	MESA Explored STEM Robotics STEM Exploration	MESA Explored STEM Robotics Advanced Robotics	Health/ Careers Finance Tech	Biotechnology 1	Biotechnology 2	Biotechnology 3
	English P/HP	English P/HP	Eng 9 H/ Social Entrepreneurship	English P/HP	Eng 11/English & Product Development	English P/AP
	Math P/HP	Math P/HP	Math P/HP	Math P/HP	Math P/HP	Statistics & Probability
	Science P/HP	Science P/HP	Living Earth P/HP	Chemistry of the Earth Systems P/HP	The Science & Ethics of Biotechnology	AP Chemistry
	History P/HP	History P/HP	PE-1	PE-2	US History P/AP	Government/ Economics P/AP
	Elective	World Language/ Elective	World Language	World Language	World Language	Visual/ Performing Art
	PE	PE	N/A	Zero Period/ Summer School/ eLearning: World History	N/A	N/A
College Credit		Dual Enrollment- Fullerton College COUN 151 C: Academic Planning Counseling Course			Dual Enrollment- Fullerton College BIOL 190/ 190L- Introduction to Biotechnology (w/ Lab) CHEM 101 F- Chemistry for Health Science OR CHEM 107 F- Prep for General Chemistry Certification #1: Biotechnology Lab Assistant	
Work Based Learning	AIME Mentoring		AIME Career Mentoring		AIME Internship Supply Chain Internship w/Fullerton College	
Enrichment			Youth Ent HOSA			

Community College
AA/AS Degree
Certifications



University
BA/BS Degree



Join the Workforce
Career Ready



UNLIMITED YOU 
ANAHEIM UNION HIGH SCHOOL DISTRICT



Biotechnology Pathway

Benefits of Taking this Pathway

Earn college credits towards a certificate or Bachelor's degree in Biotechnology.

Fullerton College programs has a direct articulation with Mira Costa College and Solano College.

The first 2 years at Fullerton College would be free under Pledge. At Mira Costa College, upper division Classes are offered in mornings, so that students can work in afternoons/evenings. The bachelor's degree has 95% job placement afterwards.

Biotechnology certificates help you to find a high paying job while working towards your degree

Workforce Potential

1,763 Biotechnology businesses in Orange County
\$105,674 average earning per job

Potential Careers in Biotechnology

- Biotechnology Lab Assistant
- Clinical Research Associate
- Forensic DNA Analyst
- Instrumentation/Calibration Technician
- Laboratory Assistant
- Manufacturing Technician


**Biotechnology careers in many industries

Local College Programs

Pledge Partners
Fullerton College
California State University, Fullerton

Other Local Schools
California Polytechnic University, Pomona
California State University, Dominguez Hills
California State University, Long Beach
California State University, Los Angeles
California State University, San Bernardino
Cerritos College
Orange Coast College
Saddleback College
Santa Ana College

Fullerton College Certifications



Fullerton College
Biotechnology Program

Our certificates are stackable so you can earn entry to advanced-level Certificates of Achievement, transfer to a university, and obtain an Associate in Science Degree in Biotechnology.

LEVEL I: BIOTECH LAB ASSISTANT		
BIOL 190F	INTRO TO BIOTECHNOLOGY	3 UNITS
BIOL 190L	INTRO TO BIOTECHNOLOGY LAB	1 UNIT
BIOL 191F	BIOTECH A: BASIC LAB SKILLS	4 UNITS
	SELECT ONE OF THE FOLLOWING:	5 UNITS
CHEM 101F	CHEMISTRY FOR HEALTH SCIENCE	
CHEM 107F	PREP FOR GENERAL CHEMISTRY	
OR	PASSING SCORE ON CHEMISTRY ASSESSMENT TEST	

LEVEL II: BIOMANUFACTURING TECH		
BIOL 192F	BIOTECH B: PROTEIN BIOCHEMISTRY	4 UNITS
BIOL 194F	QUALITY & REGULATORY COMPLIANCE	2 UNITS
CHEM 111AF	GENERAL CHEMISTRY I	5 UNITS

LEVEL III: BIOTECH LAB TECH		
BIOL 193F	BIOTECH C: MOLECULAR BIOLOGY	4 UNITS
BIOL 196F	TISSUE CULTURE METHODS	2 UNITS
	SELECT 8-10 UNITS OF THE FOLLOWING:	
BIOL 109F	GENETICS AND BIOTECH IN SOCIETY	3 UNITS
BIOL 272F	CELL AND MOLECULAR BIOLOGY	4 UNITS
CHEM 111BF	GENERAL CHEMISTRY II	5 UNITS
MICRO 262F	GENERAL MICROBIOLOGY	5 UNITS

ASSOCIATE IN SCIENCE
BIOLOGICAL TECHNICIAN

ELIGIBLE FOR DIRECT TRANSFER TO MIRA COSTA COLLEGE OR SOLANO COLLEGE FOR B.S. IN BIOMANUFACTURING

Want More Information?

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Our Partners



Medtronic

