

ORANGE HIGH SCHOOL

BIOTECHNOLOGY

Biotechnology Pathway:

Biotechnology or Biotech is an extremely hands-on field of study that intersects laboratory techniques with science. Simply put, Biotechnology is the study of technological advancements on biologics. In Orange County alone, Biotechnology is a booming Life Science Sector that employs approximately 45,000 individuals. More importantly, over 60% of these employment opportunities require less than a bachelor's degree! Furthermore, the Biotech/Life Science Sector is a lucrative opportunity with the mean salary in OC at \$91,500.

To sign up for a Biotechnology Pathway course, contact your OHS counselor!

"BIOTECHNOLOGY IS MORE INVOLVED IN THE WORLD THAN YOU THINK. IT CAN SAVE LIVES. VENTURE INTO THE MODERN WORLD THROUGH THE BIOTECHNOLOGY COURSE."

- A. Salazar

Class of 2022

Pathway Teacher:

Mrs. Williams graduated with a B.S. in Biochemistry from CSU Fullerton and has a Master of Arts at teaching in Chemistry from the USC. She has industry experience in the field of biochemistry as a clinical cancer researcher at Children's Hospital of Orange County and Baxter Healthcare International (Gene Therapy) in Orange County, CA.



For more information contact Biotech Pathway teacher Mrs. Angela Williams, angela.williams@orangeusd.org

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Sample Four-Year Plan:

This represents a sample four-year plan sequencing the classes offered in our Biotechnology Pathway. Students must complete a level (02) and (03) course to be a pathway completer and earn a tassel to wear at graduation. Students should work closely with their counselor to incorporate appropriate honors, and AP courses as well as other graduation and A-G required courses.



Course Type	9th Grade	10th Grade	11th Grade	12th Grade
Biotechnology	Foundations of Health Science <small>(recommended but not required)</small>	Biotech I (02)	Biotech II (03)	Biotech III (03)

Course Descriptions:

Biotechnology I (02): A base-level course designed to introduce students to the history of Biotech, laboratory skills and current biotech applications. The biotech focus of this course will be on basic cell biology and Chemistry.

Biotechnology II (03): This course emphasizes the field of biotechnology by exploring the history of its origin and development, a survey of modern industrial applications and accomplishments, ethical considerations, and career paths. (Available starting Fall 2021).

Biotechnology III (03): A capstone course that is designed to introduce students to Work-Based Learning by academic research and professional internship. Students will be mentored by industry and academic advisors for college and career readiness in Biotechnology. (Available starting Fall 2022).

Scan the QR Code to access the Biotechnology Website created by Mrs. Williams

