



Sheldon High School

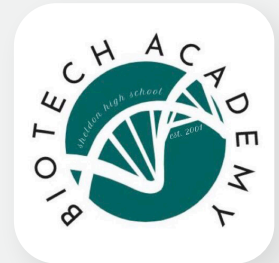
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https://sheldonbiotech.wixsite.com/shsbta | Instagram: @SheldonBTA



Biotech Academy (BTA)

About This Academy

The Biotech Academy is a California Partnership Academy that is tailored to meet the needs of all students by combining ongoing and direct contact with local and regional industries, blending academic instruction and meaningful work based experiences. Students learn advanced scientific concepts and cutting-edge lab skills that prepare them for both post-secondary education and employment in the current and emerging high-growth science career labor market. Through the direction and support from business and industry, the academy provides a powerful school-to-career educational experience for youth interested in science related occupations. Join the program awarded *Distinguished Academy* by the State of California and discover how to turn your interests into a career!



"I just finished my 3rd year of med school, finished all of my clinical rotations and am now studying for my boards. I wanted to thank the Biotech Academy for stimulating my interest in science while I was in high school and acknowledge again that I would not be in the place that I am without it."

[Biotech Academy Alumni](#)

College & Career Pathway

ENTRY LEVEL

Average Salary: \$37,878

- Community Health Worker • Biotechnology Assistant
- Laboratory Assistant • Respiratory Care Practitioner
- Medical Assistant • Physical Therapy Assistant • Pharmacy Aide

ASSOCIATE'S DEGREE/CERTIFICATION

Average Salary: \$65,543

- Biomedical Technician • Pharmacy Technician • Paramedic
- Radiology Technologist • Cardiovascular Technologist • Operating Room Technician • Certified Nursing Assistant • Emergency Medical Tech

BACHELOR'S DEGREE +

Average Salary: \$74,254

- Public Health Social Worker • Geneticist • Biomedical Chemist • Pharmacist & Pharmaceuticals • Physician • Nurse Practitioner • Dietitian & Nutritionist
- Biomedical Engineer • Epidemiologist • Biotech Technician • Researcher

Explore Your Future Career

PATIENT CARE

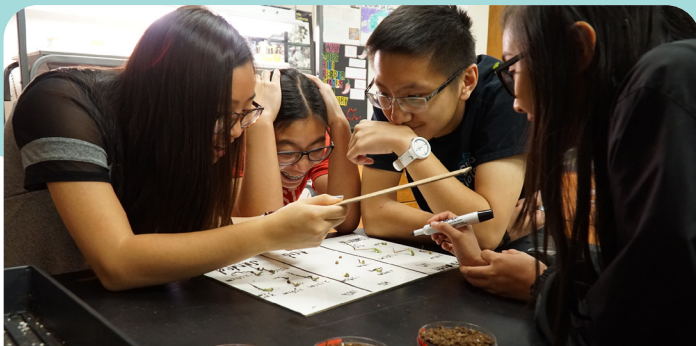
PUBLIC & COMMUNITY HEALTH

BIOTECHNOLOGY

HEALTH CARE ADMINISTRATIVE SERVICES

Biotech Academy (BTA)

SHELDON HIGH SCHOOL



Competitive Advantage

INDUSTRY SKILLS

- Experimental Design, Data Analysis, and Communication
- Genetic Engineering and Bacterial Transformation
- Gel Electrophoresis, PCR, and ELISA
- Microscopy
- Media Preparation and Aseptic Technique
- Bioinformatics
- Plant Biotechnology

STUDENT ACCOMPLISHMENTS

- Mentor program with industry partner – Jr. Year
- Capstone project completed in teams with an industry mentor – Sr. year
- Create website or blog on Biotech-related topic
- Perform meaningful work-based learning experiments
- Use industry-based equipment
- Guest speakers and Field trips

INTERSHIPS

- SPARK Internship
- Shriner's Summer Youth Academy
- Jackson Laboratory Summer Program

COMPETITIONS

- UC Davis: Teen Biotech Challenge
- Sacramento STEM fair
- Science Olympiad

Sequence Of Courses

ALL COURSES ARE A-G

THE TECHNOLOGY OF BIOLOGY #04111
INTRODUCTORY

THE SCIENCE AND ETHICS OF BIOTECHNOLOGY HONORS #12671
INTRODUCTORY

MICROBIOLOGY HONORS #12672
CONCENTRATOR

MOLECULAR BIOTECHNOLOGY HONORS #12673
CAPSTONE



DISCLAIMER: The courses outlined above meet pathway requirements and are subject to change. This sequence does not list all courses needed for graduation.

Business & Community Partners

- UC Davis Biotechnology Program
- Bayer CropScience
- Vitalant
- California Northstate University
- JAX Laboratory
- Sacramento County District Attorney's Office Crime Lab
- Genentech
- California State University, Sacramento
- American River College
- California Institute for Regenerative Medicine
- Dignity Health, Methodist Hospital
- BETC (Biology Education to Careers)
- MOSAC Science Center (Formerly Powerhouse)



Sacramento County District Attorney's Office

seek justice. serve justice. do justice.



CALIFORNIA
NORTHSTATE
UNIVERSITY

