



Instructors:

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Offered at:



**Leads into the following
College Majors:**

- Biology
- Microbiology
- Biochemistry
- Pre-Medicine
- Pre-Pharmacy
- Animal Science
- Forensic Science
- Molecular Biology
- Biotechnology Engineering



AMPHITHEATER

Public Schools

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Biosciences



In this course, students:

- Learn how biotechnology is used in medical, agricultural, and food industries while working with scientific instruments that are commonly found in a research laboratory.
- Isolate and transfect DNA.
- Isolate, analyze, and express proteins and enzymes.
- Research the effects of substances, such as drugs and hormones on cells and tissues from bacteria, plants, and mammals.
- Explore biotechnology careers, history and applications of biology in drug discovery and development and agricultural biotechnology.
- Compete in HOSA.

Industry Certifications:

- OSHA 10-hour General Industry, Biotechnician Assistant Certification

Possible Career Pathways:

- | | | |
|------------------------------|------------------------------|------------------------------|
| - Biochemist | - Microbiologist | - Zoologist |
| - Biomedical Engineer | - Crime Lab Technician | - Pharmacist |
| - Nuclear Medicine Physician | - Bioinformatics Scientist | - Pharmaceutical salesperson |
| - Laboratory Manager | - Medical Doctor | - Veterinary Science |
| - Molecular Biologist | - Cellular Biologist | - Biotechnologist |
| - Biologist | - Drug Discovery/Development | |

**Students enrolled in Biotechnology I and II can be dual enrolled with Molecular and Cellular Biology 101 and 102, respectively, at the University of Arizona with three transferable elective credits*

"The Biotech program has helped appease my curiosity as well as taught me laboratory techniques and communication skills applicable to the professional world."

~ Carmen Contreras, Canyon del Oro Graduate