



Biotechnology

This pathway is designed to give students a comprehensive introduction to the scientific thinking, concepts and laboratory research techniques currently used in the field of biotechnology. Students will also learn about biomimicry, a cutting edge approach that seeks sustainable solutions to human challenges, especially in the medical field, by emulating nature's patterns and strategies. Possible careers include lab assistant, chemical technician, and microbiologist.



◆ Course Sequence

1. Health Science Technology
2. Medical Terminology
3. Human Anatomy

◆ College Credit Opportunities

- Introduction to Anatomy & Physiology
- Medical Terminology
- Principles of Biology
- Principles of Chemistry
- Technical Report Writing

(Prerequisite - College English Composition)

College Credit Plus general education and other dual credit courses are also available.

◆ Industry Credentials

- CPR First Aid
- Certified EKG Technician
- Leadership Excellence - Student
- LPN at Stark State College
- OSHA - 10
- STNA
- Stop The Bleed

Pathway Promise: Scholars that successfully complete this pathway will be prepared with industry credentials, college credits, and community experiences that support their future aspirations.



**College & Career
Academies**

AKRON PUBLIC SCHOOLS

NIHF STEM

Biotechnology

Entry-Level Careers

- Customer Service Associate
- Dental Assistant
- Hazardous Waste Associate
- Hospital/Surgical Housekeeper
- Lab Assistant
- Landscaper
- Manufacturing Technician
- Nursing Technician
- Research Assistant
- Sterilization Assistant
- Veterinary Assistant

Technical Careers

(Advanced certification, Apprenticeship, or Associates Degree)

- Biological Technician
- Certified Dental Assistant
- Clinical Lab Technician
- Dental Hygienist
- EKG Technician
- Expanded Functions Dental Assistant
- Lab Technician
- Licensed Practical Nurse
- Licensed Veterinary Technician
- Research Assistant
- STNA

Professional Careers

(Bachelor's Degree or higher education)

- Biomedical Engineer
- Biomechanical Engineer
- Microbiologist
- Occupational Therapist
- Orthodontist
- Pathologist
- Physical Therapist
- Physician
- Prosthetist
- Registered Nurse
- Sports/Exercise Scientist
- Veterinarian