

NEW!



COLLEGE TECH PREP

Biomedical Engineering and Technology Academy 

This emerging science focuses on applying the principles of engineering and technology to life sciences. The format of this Tech Prep Initiative is discovery-based, with an emphasis on current technology, developments and research. Students will focus on modern field usage of biotechnology in engineering, pharmaceuticals, medicine, agriculture and others. Level II will incorporate a required capstone project. Throughout this two-year offering, bioethics and entrepreneurship will be included. In addition, connections with area biomedical industries will be available to students.

Skills necessary for success

- Creative problem solver
- Technology/media skills
- Task-oriented
- Demonstrates written and verbal communication skills
- Works with information, ideas and products
- Conceptual thinker

Areas of concentration

- Microbiology
- Anatomy/Physiology
- Bioethics
- Entrepreneurship
- Technical tools
- 3D Imaging/Technology
- Engineering of medical devices

Program recommendations

- Average 95% attendance for three previous semesters
- Average of G.P.A. of 2.8 for Algebra 1, English and science for three previous semesters
- Chemistry
- Pre-Calculus
- Geometry

Required-Prerequisites

- Algebra 1
- Physical Science
- Biology
- CP English

Higher education opportunities

- College credits available at The University of Akron, College of Engineering. See page 32.
- Bachelor's Degree

GRADE LEVEL: 10, 11, 12
LENGTH: Two years
SCHOOL: Woodridge High School

CREDIT:
Level I - Lab 1; Technical Theory 1; Honors English 1; Anatomy/Physiology 1.
Level II - Lab 1; Technical Theory 1; Honors English 1; Honors Physics 1; Capstone Project.