COLLEGE TECH PREP

Biomedical Engineering and Technology Academy ⤷STEM

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.