

COLLEGE TECH PREP

Engineering Academy

This two-year College Tech Prep Academy combines academically competitive, college prep courses with hands-on technical studies. Students rotate through four technology areas: Computer Aided Design (CAD), electronics, manufacturing, and polymers. College prep courses in English, Algebra II, Pre-Calculus, Calculus, A.P. Calculus and Physics are linked with the technology curriculum. Various instructional approaches are used, including team teaching, work teams, self-directed studies, and project-based learning. University partners include Cleveland State University and The University of Akron, where students can earn up to 9 credits at the Summit College.

Areas of Concentration

- Basic electronic principles
- Primary industrial and manufacturing systems
- Computer-aided design
- Lab testing procedures/standards
- College prep English, including:
 - Academic and technical writing
 - Research and report preparation
 - Communication/presentation skills
 - Literary studies
- Physics
- Algebra II
- Pre-Calculus
- Calculus/AP Calculus



Professional Pathway

- Engineering
- Computer-Aided Design (CAD)
- Polymers
- Electronics
- Quality control technology
- Industrial manufacturing
- Electrical, electronic and electromechanical engineering
- Machine tool & die technology
- Apprenticeships
- Business

Prerequisites-Required

- Algebra I
- Completion of one college prep credit in science and English

Program Recommendations

- Chemistry (before graduation)
- Geometry (prior to end of tenth grade)
- Average G.P.A. of 2.5 for Algebra I, English, and science for three previous semesters
- Average 95% attendance for three previous semesters

Higher education opportunities

- 9 college credits available at The University of Akron, Summit College. See page 33.
- Associate's degree
- Bachelor's degree



GRADE LEVEL: 10, 11, 12 (third year option for those accepted in grade 10)
LENGTH: Two years
SCHOOL: Roosevelt, Stow-Munroe Falls

CREDIT:
Academic credits - Math 1, Physics 1 and English 1; Technology credits 3