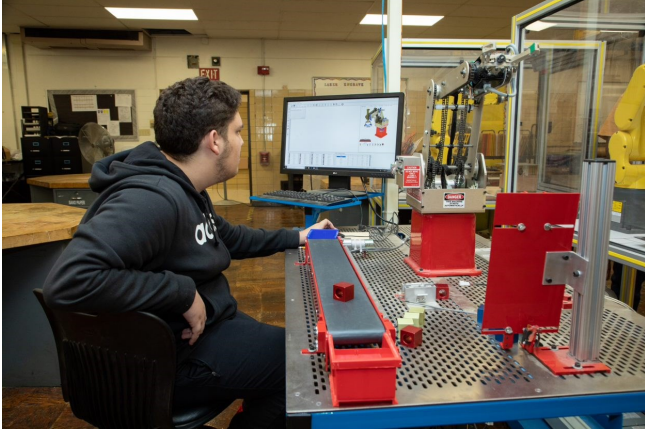# Pre-Engineering

Instructors: Mike Beiter, Mimi McCorkle and John Wingerter

CIP Code 15.9999

Our four-year Pre-Engineering Technology program encompasses electrical, mechanical, civil, plastics, and industrial engineering. It is designed to provide students with a strong math, science, and engineering background. The technical core of the program covers CAD design and manufacturing with engineering systems to take a conceptual idea and develop a finished product. You will gain hands-on experience in methods and procedures as you examine the properties of materials and develop prototypes. Our program will thoroughly prepare you to meet the requirements of post-secondary engineering programs.

Students completing our course will have both hands-on and academic engineering skills that prepare them well to excel in college engineering programs or to directly enter the workforce.

Career Pathways:

Students will be prepared to enter college programs in:

Mechanical Engineering*
Civil Engineering*
Electrical Engineering*
Industrial Engineering*
Software Engineering*
Aerospace Engineering*
Computer Aided Drafting and Design
*May require some postsecondary training

Students will also be prepared to move directly into the workforce in:

Hydraulic/Pneumatic/Electrical Maintenance (Mechatronics)
Computer Aided Drafting and Design
Industrial Automation and Robotics

Program Entrance Recommendations:

- Strong background in math and sciences. (Pre-Algebra/Algebra)
- Teamwork skills
- Logical thinking and reasoning
- Good communication skills
- Attention to detail

Earn Industry Certifications:

FANUC Certified Robot Operator
OSHA 10-Hour Manufacturing

Earn College Credits:

Gannon University

PA Bureau of CTE SOAR Articulation Credits: For more information, visit www.collegetransfer.net/Search/PA-Bureau-of-CTE-SOAR-Programs

www.eriesd.org/cte