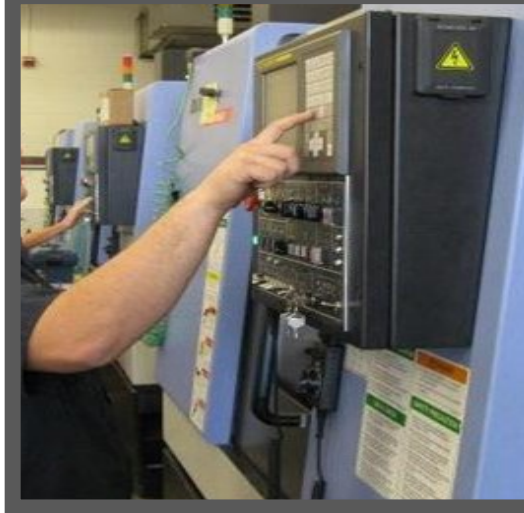


CCCTC
WEBSITE
PREVIEW



Applied Mechanical Engineering is an excellent program for aspiring Mechanical Engineers to see how metal parts are made with precise tolerances. It allows them an opportunity to see where engineering theory meets the reality of production. This program can also prepare students for beginning a career as a machinist, a production operator, a quality control technician, or a manufacturing engineering technician in the computer-enhanced manufacturing environment. The program focuses on hands-on experiences using industrial tools such as lathes and mills. It also teaches students how to run highly advanced computer numerically controlled (CNC) equipment along with 3D imaging software (CAD CAM) to make precision parts. This program has earned national certification through the National Institute of Metalworking Skills (NIMS).

MAJOR UNITS OF STUDY:

- Bench Work
- Metal Fabrication
- Blueprints
- Drill Press Operations
- Grinding Operations
- Hand Tools
- Heat Treatment Operations
- Lathe Operations
- Milling Machine Operations
- Precision Measuring Tools
- Program and Operate CNC Equipment
- Sawing Operations
- Technical Math

PROFESSIONAL AFFILIATIONS:

- National Institute of Metal Working Skills (NIMS)



National Institute for Metalworking Skills®

COLLEGE CREDITS AND CERTIFICATIONS:

- Earn articulated college credits through Penn College of Technology or The Community College of Baltimore County
- Take the NIMS certification tests in: Measurement, Materials and Safety and/or Job Planning, Bench Work and Layout. Other tests are optional for qualified students.



SCHEDULE:

M&MT I (3 credits) Spring of junior year
M&MT II (3 credits) Fall of senior year

Want to know more? Check out our website at:

www.carrollk12.org/ctc

"Meet the Instructor"

College & Career Opportunities

Watch Program Video

View Pictures

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