

SCHOOL OF ADVANCED MANUFACTURING, ENGINEERING, & APPLIED SCIENCE AT A GLANCE

Advanced Automation & Robotics Technology:

- Cutting edge robotics, programmable logic controllers, & Computer Numeric Controls
- MSSC and Siemens Certifications
- Paid Internship possibilities while in school
- Offered as a Technical Certificate and as an Associate of Applied Science degree

Automotive Technology:

- Industrial used technology & ASE Certifications
- Offers training in Auto Service, Hybrid Auto Service, and Motor Sports
- Internship possibilities
- Can become GMASEP or Toyota T-10 Technician

Bio-Technology :

- Prepares students for careers in a variety of life science and manufacturing settings including research, quality control, pharmaceuticals, and medical device manufacturing
- Students will spend time working hands-on doing laboratory activities either by themselves or in small groups with the ability to have one-on-one time with the instructor

Building Construction Management:

- Prepares you for residential, Commercial, or Industrial construction management
- Offer as an Associate of Applied Science
- Can be takes as Associate of Science Degree that transfers

Building Construction Technology:

- Can acquire fundamental knowledge and skills in preparation for a career in building construction and associated businesses
- NCCER Credited
- Find employment opportunities in skilled trades, building construction supply, general contracting, subcontracting, and building construction industry regulation.

Design Technology:

- Prepares students for challenging professions in the design disciplines
- Software used includes AutoCAD, Inventor, REVIT, Solid Works, Creo
- Offers training on Rapid Prototyping also known as 3-D Printing
- Offered as a Technical Certificate and as an Associate of Applied Science degree

Diesel Technology Certificate of Training:

- Provides an opportunity for students to gain the skills necessary to enter the field of Heavy Diesel Maintenance
- Students gain training in Electrical Systems, Brakes, Engine Performance, Transmission and others

Electronic & Computer Technology:

- Prepares students for a variety of careers in technology, such as computing, networking, communications, process control and automation, robotics, biomedical, energy management, and transportation
- Offered as a Technical Certificate and as an Associate of Applied Science degree

Electronic Engineering Technology:

- Prepares students for a variety of careers in technology, such as computing, networking, communications, process control and automation, robotics, biomedical, energy management, and transportation
- Develops knowledgeable and skilled technologists who can work with engineers and technicians to implement electronic designs and perform engineering tasks such as collecting, analyzing, and interpreting data, installing, maintaining, and troubleshooting various electronic systems
- Able to continue their education at Indiana University-Purdue University Indianapolis (IUPUI) or at Purdue North Central (PNC) in a Bachelor of Science degree in Electrical Engineering

Heating Ventilation & Air Conditioning:

- Provides an opportunity for students to gain the skills necessary to enter the field of heating, cooling and refrigeration
- Specialties in the field include energy management, green technologies, and building automation systems

Industrial Technology:

- Provides high quality training, and skill development in the area of Industrial Technology
- Can seek a focus in Welding, Mechanical or Electrical Maintenance
- Includes the option for a TC in Welding

Machine Tool Technology:

- Offers solid training in this specialized field of metal cutting operations for the creation of machined parts, specialized tooling molds, dies and prototypes
- Focused on meeting industry standards skills for producing competent certified graduates

Manufacturing Production & Operations:

- complete online degree designed to develop the skills and knowledge of modern manufacturing processes
- Prepares students to become skilled production operators who can function as fully proficient manufacturing system employees in manufacturing environments

Mechanical Engineering Technology:

- Prepares students to enter the workforce with basic technology skills and appropriate science and math knowledge to work with engineers and other technicians to synthesize, improve, and implement mechanical designs and to support engineering processes such as collecting, analyzing, and interpreting data and troubleshooting mechanical systems
- Prepares two-year associate degree graduates for transfer to a four-year engineering technology program at institutions such as Purdue University or IUPUI

Pre-Engineering:

- Emphasis is placed on qualitative and quantitative analytical skills necessary in engineering design and problem solving while working in a cooperative team environment
- Provides you an introduction to study a variety of engineering fields e.g. electrical, mechanical, civil, computer, etc. In addition to vital engineering information, it provides a strong foundation in science and mathematics
- Designed to prepare you for transfer to baccalaureate engineering degree programs and provides a strong foundation in science, mathematics and engineering