

Applied Industrial Technology, AAS

School of Technology

Industry in the Southwestern Pennsylvania region is dynamic and employees who have a broad educational background in industrial technology are a valuable commodity. The applied industrial technology degree will allow students to customize their educational pathway and pursue education and training in more than one skill group while integrating a core set of foundation courses including applied math, science and communication. Students who complete this degree program will be employable in various industries including manufacturing, oil and gas, technical sales, warehouse operations, and transportation. Students will engage in classroom discussions, research activities and laboratory exercises that will enhance existing and develop new knowledge, skills and abilities.

Career Opportunities

Students who complete this program may accept positions such as general maintenance and repair workers, production managers, manufacturing and technical sales representatives, production workers, machinists, dispatchers, supervisors, electrical technicians, telecommunications technicians, safety specialists and many others.

Program Learning Outcomes

This curriculum is designed to prepare students to:

- demonstrate the skills, professional values and ethics necessary to be employed in the various industries that employ individuals with technical or trades-related skills associated with the management and energy sectors
- demonstrate effective oral and written communication skills with corporate officers, supervisors, government officials, front line workers and colleagues
- demonstrate knowledge, skills and abilities in multiple technological and trades related disciplines
- identify, install, troubleshoot, construct, form, weld, assemble, wire or develop systems or processes based upon selected educational pathways
- implement safe work practices in all occupational areas
- apply and demonstrate compliance with applicable regulations, laws, governing bodies or associations as necessary depending upon chosen disciplines

Seq #	Course	Course Title	Credits	Type	Term Offered	Pre-Req	Options Available
1	Certificate	Heating, Ventilation and Air Conditioning Mechanic I, Certificate	15	Major	F, Sp, Su		
2	Certificate	Heating, Ventilation and Air Conditioning Mechanic II, Certificate	15	Major	F, Sp, Su	HVAC Mech I Cert	
3	Certificate	Advanced Manufacturing Basic Systems, Certificate	16	Major	F, Sp		
4	Certificate	Advanced Manufacturing and Robotics Technician I, Certificate	16	Major	Sp	Adv. Man. Basic Systems Cert.	
5	Certificate	Industrial Electricity Technology Certificate	16	Major	F, Sp, Su		
6	Certificate	Journeyman Machining Technology I, Certificate	16	Major	F		
7	Certificate	Journeyman Machining Technology II, Certificate	16	Major	Sp		
8	Certificate	Welding Engineering Technology I, Certificate	15	Major	F, Sp, Su		
9	Certificate	Welding Engineering Technology II, Certificate	15	Major	F, Sp, Su	Welding Eng. Tech I, Cert	
10	ENG 161	College Writing	3	Gen Ed	F, Sp, Su	TEST	
11	DFT 258	AutoCAD	4	Gen Ed	F, Sp, Su		
12	ENG 162	Technical Communication	3	Gen Ed	F, Sp, Su	ENG 161	
13	MTH 108	Mathematics for the Technologies I	4	Gen Ed	F, Sp, Su	TEST	Advisor
14	PSY 160	General Psychology	3	Gen Ed	F, Sp, Su		
15	Elective	Restricted Electives	9-14	Gen Ed	F, Sp, Su		See List

Total Program Credits
Total Pathway Credits

60
60

Students must select two of the certificates. Student must consult with their advisor for appropriate completion. Restricted Electives: Technical courses with the prefix: EMA, NGT, MTT, CNC, WEL, HAC, ELC, RBT, ARC, DFT, EGR PDV 101 - First-Year Seminar is required for all first-time credential-seeking students.