

Industrial Technology, Diploma

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 industrial technology diploma 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 diploma 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 and develop 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

Upon successful completion of this program, students will be able 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.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Term Offered	Prereq(s)	Options Available
Students must select two certificates		Certificate	Heating, Ventilation and Air Conditioning Mechanic I, Certificate	15	F, Sp, Su		
		Certificate	Heating, Ventilation and Air Conditioning Mechanic II, Certificate	15	F, Sp, Su	HVAC Mech I Cert	
		Certificate	Robotics – Basic Systems, Certificate	16	F		
		Certificate	Robotics – Technician I, Certificate	16	Sp	Adv. Man. Basic Systems Cert	
		Certificate	Journeyman Machining Technology I, Certificate	16	F		
		Certificate	Journeyman Machining Technology II, Certificate	16	Sp		
		Certificate	Welding Engineering Technology I, Certificate	15	F, Sp, Su		
		Certificate	Welding Engineering Technology II, Certificate	15	F, Sp, Su	Welding Eng. Tech I, Cert	

Total Program Credits

30-32