

Industrial Technology

Course overview: To develop an understanding of two major technologies used by all manufacturing enterprises; material processing and management technology.

Here's the Latest to develop an understanding of two major technologies used by all manufacturing enterprises: precision Machining and Welding Technology.

Principles of Precision Machining will instruct students in shop safety, industrial terminology, tools and machine tooling, measurement, and layout. Includes laboratory exercises to begin project completion of turning, milling, and grinding applications. This course incorporates certification assessment for the National Institute of Metalworking Skills Measurement, Materials and Safety, Job Planning, Benchwork, and Layout Certification. Applied mathematics in solving engineering and design related problems in the areas of die design, fabrication, assembly, special machiner, die casting and molds. Emphasis geometric dimensioning and applying tolerances.

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success.