

Introduction to Manufacturing

Introduction to Manufacturing Technology is a one year, entry-level course for seniors that provides an introduction to manufacturing industries and may be used as a prerequisite for any of the manufacturing career majors.



Worker standards are the basic knowledge and skills required by a mid-level production technician to perform the work. The course will include: a brief history of manufacturing, social impacts, types of manufacturing production, design processes, properties of materials, manufacturing processes, safe use of tools and equipment, free enterprise and marketing principles, and career exploration.

Learning Objectives:

- ◇ Job exploration
- ◇ Manufacturing and the national economy
- ◇ Safe and productive workplace practices
- ◇ Material Safety Data Sheets (MSDS)
- ◇ Lock Out/Tag Out requirements
- ◇ Personal safety procedures
- ◇ Occupational Safety and Health Administration (OSHA) procedures
- ◇ Hazardous Materials (HAZMAT) procedures
- ◇ Environmental Protection Agency (EPA) requirements
- ◇ Cardio Pulmonary Resuscitation [CPR], fire extinguisher, blood-borne pathogens training
- ◇ Teamwork skills that enhance safety
- ◇ Quality standards
- ◇ Quality systems and inspection tools
- ◇ Blueprint reading fundamentals
- ◇ Basic measurements