



ENGAGE • EMPOWER • ENRICH

Department of Teaching and Learning
Career and Technical Education
Course Information

Manufacturing Systems I

Course Credit: 1.0

Course Codes: 852400/ 852460

Grades: 10 - 12

Counselors are available to assist parents and students with course selections. Families may arrange to meet with counselors by contacting the school's counseling department.

COURSE DESCRIPTION

This is a concentration course in the Manufacturing career cluster. This course provides an orientation to careers in various fields of manufacturing. Emphasis will be placed on manufacturing systems, safety, materials, production, business concepts, and the manufacturing process. Students participate in individual and team activities to create products that demonstrate critical elements of manufacturing.

This course counts as an elective credit.

COURSE COMPETENCIES

[Course competencies can be found in the Curriculum Guides section.](#)

PREREQUISITE

[Technology of Robotic Design](#) OR
[Materials and Processes](#)

WORK-BASED LEARNING EXPERIENCE

[Service Learning](#)

CREDENTIAL

Students are eligible to sit for the following credentials:



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[Workplace Readiness Skills](#)

CAREER AND TECHNICAL STUDENT ORGANIZATION (CTSO)

Technology Student Association (TSA) provides the application and integration of science, technology, engineering, and mathematics (STEM) concepts through co-curricular instruction, leadership development, competitive events and related programs.

BENEFITS OF CAREER AND TECHNICAL STUDENT ORGANIZATIONS INCLUDE:

- Provides a hand-on approach to learning
- Refines career objectives through realistic experiences
- Promotes awareness of new career opportunities
- Develops skills and responsibilities for being a role model and mentor
- Cultivates social development and awareness
- Develops a sense of community and volunteerism
- Develops an appreciation and understanding for cultural diversity
- Improves communication and decision-making skills
- Provides for personal development
- Develops interpersonal and leadership skills
- Develops responsibility and self-confidence
- Provides opportunities for recognition

LAB FEE

\$20.00

OPTION FOR NEXT COURSE

[Manufacturing Systems II](#)