

# MANUFACTURING TECHNOLOGIES



## INTERNSHIP OPPORTUNITIES

An internship program offers students an opportunity to enhance classroom and lab learning with “real world” work experience. Each student is required to manage their own internship search process with assistance from the Internship Coordinator. If interested in pursuing an internship visit <http://www.tmcc.edu/career-center/internships/> to learn more.

## Careers in Manufacturing Technologies

- Print Reading for Industry: DFT 110
- Quality Control: MPT 140
- General Industry Safety: OSH 222
- Introduction to Computer-Aided Drafting: CADD 100
- Introduction to Information Systems: IS 101
- Food Service Systems Management: NUTR 220
- Principles of Food Science: NUTR 222
- Machine Shop I: MTT 105
- Computer Numerical Control I: MTT 230
- Principles of Food Science: NUTR 222
- Automated Production Concepts I: MPT 110
- Basic Electricity: ENRG 110
- Welding 1: WELD 211

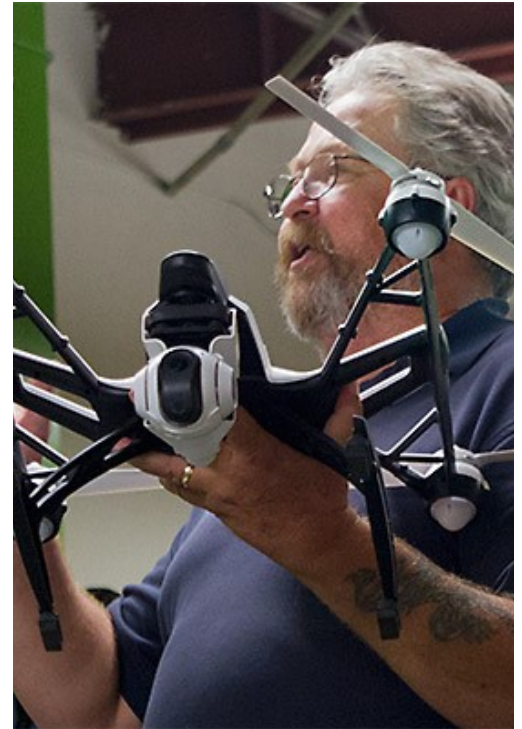


# MANUFACTURING TECHNOLOGIES

## Preparing for a career in Manufacturing Technologies

Manufacturing Technologists work in teams with others to develop tools, processes, machines and equipment to make quality products at a reasonable cost. Depending on their area of focus, they may work with engineering graphics, engineering materials and mechanics, hydraulics and pneumatics, or electronics and electric power. They may use computer aided design or computer-aided manufacturing (CAD/CAM) equipment, robotics, and other planning tools to evaluate manufacturing processes with an eye for increasing productivity, reducing costs, and maintaining or improving the quality of a manufactured product.

Manufacturing Engineering Technologists are usually employed in the functional areas of quality assurance, plant management, materials handling, industrial safety, systems planning, process planning, computer integrated manufacturing. They may provide technical customer service, or work in technical sales and marketing because of their strong knowledge of equipment and processes.



## ACADEMICS

### Course Suggestions:

- Print Reading for Industry: DFT 110
- Quality Control: MPT 140
- General Industry Safety: OSH 222
- Introduction to Computer-Aided Drafting: CADD 100
- Introduction to Information Systems: IS 101
- Food Service Systems Management: NUTR 220
- Principles of Food Science: NUTR 222
- Machine Shop I: MTT 105
- Computer Numerical Control I: MTT 230
- Essentials of Logistics Management: LGM 201
- Automated Production Concepts I: MPT 110
- Basic Electricity: ENRG 110
- Welding 1: WELD 211

## CO-CURRICULAR ACTIVITIES AND COMMUNITY ORGANIZATIONS

TMCC's manufacturing technologies department incorporates co-curricular activities within the educational program. Due to TMCC's manufacturing technologies degree programs being applied science programs, students are able to join in co-curricular activities as they progress through their courses as the majority of these courses require students to take on a "hands-on-approach" in order to understand, practice, and apply what they are learning. Other organizations affiliated with the manufacturing technologies degree programs are the Society of Manufacturing Engineers, Society of Automotive Engineers, Association for Manufacturing Excellence, and the National Association of Manufacturers.