

LIBRARY SKILLS • MANUFACTURING TECHNOLOGY

BEFORE ENROLLING IN DEGREE APPLICABLE COURSES, IT IS RECOMMENDED THAT YOU COMPLETE ENGL 001A AND READ 053.

LIBRARY SKILLS (LIB)

DIVISION: Commercial Services
 DIRECTOR: Tim Karas
 DEPT CHAIR: Elaine Wong
 PHONE: 408-855-5162

<http://www.missioncollege.org/lib/librarycourses.html>

The Library is designed to help students succeed in their college classes. The courses provide students with the opportunities to develop and strengthen their research skills and learn the core concepts of information retrieval. Students will practice finding, analyzing, organizing and presenting information.

Student Learning Outcomes:

Upon completion of the library courses, students will have acquired the necessary skills to find, evaluate, and use information effectively in a variety of contexts for academic success, lifelong learning and enrichment.

Students will learn to:

- Locate, evaluate, and use information in print, non-print, and electronic format.
- Properly cite sources according to established formats such as APA and MLA.
- Explain the legal and ethical aspects of research, including copyright and plagiarism.

Outcomes will be assessed by a series of embedded class assignments, exams, problem-solving exercises and activities.

Highlights:

- Fulfills Information Competency Graduation Proficiency requirement.
- Fulfills General Education Area E requirement.

Schedule Matrix:

COURSE	FALL	SPRING	WEEKEND	ONLINE
LIB 010	D,E	D,E		X

D= DAY CLASSES; E= EVENING CLASSES; X= ONLINE CLASSES

LIBRARY SKILLS (LIB)

006 • USING THE INTERNET FOR RESEARCH 1.0 unit

Total Lecture 16.0 hours

Advisory: CA 070

Acceptable for credit: California State University

This course provides an introduction to finding information on the Internet, including advanced searching techniques. The course also provides instruction in using Internet tools and compares these tools to other information resources available in the library. Students will practice planning, executing, evaluating, and documenting successful searches. Some familiarity with computers recommended. Course may also be offered online. *Pass/No Pass Option.*

010 • INFORMATION COMPETENCY 1.0 unit

Total Lecture 16.0 hours

Advisory: CA 070

Acceptable for credit: California State University; University of California

This course covers the basic elements of information competency by introducing students to the nature of research and the role of the library in research, including finding, analyzing, organizing, presenting information, and the legal and ethical aspects of research. Students will be introduced to a variety of informational resources including print, media, electronic formats and the World Wide Web. *Pass/No Pass Option.*

920 • INFORMATION COMPETENCY WORKSHOP No Credit

Total Lab 8.0 hours

This non-credit course consists of a series of workshops addressing specific areas of Information Competency. The workshops will help students gain proficiency in all aspects of Information Competency including Research Strategies and Using Reference Materials, Searching Online Catalog, Locating Journal and Newspaper Articles, Using the Internet, and Legal Aspects of Information: Citing Sources, Plagiarism, Copyright. Students may attend all or part of the offered workshops. *This course may be repeated 3 times No Grade.*

MANUFACTURING TECHNOLOGY (MFG)

DIVISION: Technology
 DEPARTMENT: Manufacturing Technology
 DEPT CHAIR: Chris Martin
 PHONE: 408-855-5356
 COUNSELING: 408-855-5030

Program Information:

Developed through a partnership with major semiconductor industry firms, Mission College's Semiconductor Manufacturing Technician Program is designed to prepare students for entry level positions in this rapidly growing, high skill, high wage industry. The program provides "hands-on" training in semiconductor fabrication including cleanroom procedures, monitoring manufacturing processes, and maintaining and troubleshooting manufacturing tool sets (equipment).

Graduates of the program will possess a broad range of skills including strong backgrounds in mathematics, basic electronics, physics, chemistry, communications, and teamwork and will be trained to test, operate, and maintain equipment, analyze processes and assure quality control.

Student Learning Outcomes:

The Manufacturing Technology Department has developed its curriculum based upon the needs of industry. The department maintains industry-school partnerships and advisory committees with large corporations and smaller businesses that enables students to have a successful school-to-career experience. Students in manufacturing technology courses develop the ability to converse, work, and understand the technological environment they live in.

Manufacturing Technology objectives include:

- Bringing technology to the forefront of a student's living and working lifestyle.
- Establishing some fundamentals and principles in a student's life for technological problem solving and troubleshooting.
- Enhancing the ability for students to contend with the strife of a technological environment.
- Instructing students in specific areas of technology that are related to the needs of industry.

It is highly recommended that each student keep a complete record of work to present for evaluation by university program advisors and/or employers.

A.S. Degrees:

- Semiconductor Manufacturing Technician

Certificates:

- Mecha-Tronic Training
- Nano-Technology Process
- Semiconductor Manufacturing Technician

Schedule Matrix:

COURSE	FALL	SPRING	WEEKEND
MFG 020	D,E	D,E	
MFG 050	D,E	D,E	D
MFG 050A	E	E	
MFG 050B	E	E	
MFG 061	E	E	
MFG 062	E	E	
MFG 080	E	E	D
MFG 081	E	E	
MFG 082	E	E	

D= DAY CLASSES; E= EVENING CLASSES

Semiconductor Manufacturing Technician - Mecha-Tronic Training Certificate

The Certificate of Mecha-Tronic Training is based on courses in fundamental electronics and mechanics leading to a more advanced study of industry robots, home robots, and "battle-bots." This certificate focuses on areas within the electronics ecosystem, which is driving today's economy. Only courses completed with a grade of C or better may be used to satisfy requirements for a certificate.

Core Curriculum Courses (Required)	Units
MFG 050 DC/AC Principles	4.0
MFG 061 Electromech Systems	3.0
MFG 062 Robotics (Vac/Pneum/Hyd)	3.0
MFG 080 Intro to SMT	4.0
Total Program Certificate Requirements	14.0