

COURSE INFORMATION:

Course Prefix/No.:	IMT 104
Course Title:	Schematics
Lecture Hours/Week:	2.0
Lab Hours/Week:	0.0
Credit Hours/Semester:	2.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION:

This course covers the interpretation of mechanical, fluid power, and/or electrical systems.

COURSE COMPETENCIES:

Upon successful completion of this course, the student should be able to perform the following tasks:

Module 1 – Basic Blueprint Reading

- Identify lines, views, dimensions, and tolerances
- Translate title block information
- Compute lengths, widths, heights, differences, products and sums
- Work with both the standard and metric dimensioning
- Identify machine thread dimensions

Module 2 – Symbols

- Identify weld symbols
- Identify hydraulic symbols
- Identify electrical symbols

Module 3 – Technical Sketching

- Make isometric and orthographic sketches of objects, showing the necessary views
- Perform freehand lettering
- Identify sectional views and details
- Identify tapers, radii and fillets

MINIMAL STANDARDS:

Assignments and attendance must be completed as designated in “Evaluation Strategies/Grading.” Criteria for minimal acceptable performance will be provided by the instructor.

REQUIREMENTS:

Attendance Policy

The college attendance policy, stated in the college handbook, will be honored. The instructor will provide specific requirements for the course.

Academic Honesty

Students are expected to adhere to the college policy regarding student conduct as stated in the college handbook.

Assignments

Students are expected to complete all assignments and any supplementary exercises designated by the instructor.

EVALUATION STRATEGIES/GRADING:

Successful completion of the course requires the completion of each module with an average of 70 points. Grades will be calculated from work attitude, all tests/projects, homework assignments, and laboratory assignments.

Grading Scale:

A = 90.0 – 100

B = 80.0 – 89.9

C = 70.0 – 79.9

D = 60.0 – 69.9

F = 00.0 – 59.9

Evaluation Method:

Tests/Projects (minimum of three total)

Homework

Work Attitude

50% of each Module

25% of each Module

25% of each Module

100% Final Grade

Work Attitude is defined as:

- Participation
- Cooperation
- Appearance
- Effort
- Safety
- Responsibility
- Professionalism
- Attendance
- Self Motivation
- Works Independently

ENTRY LEVEL SKILLS:

The student must be able to read and solve basic mathematical equations.

PREREQUISITES/CO-REQUISITES:

Prerequisite: RDG 031 or equivalent; MAT 032 or equivalent

Co-requisite: None

METHODS OF INSTRUCTION:

Lectures, reading assignments, projects, discussions, video presentations, multi-media presentations, and web content are the major teaching methods used in this course.

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

Effective: 2009FA