

COURSE NUMBER: 456
COURSE TITLE: Drafting Fundamentals
(W.I.T.C.C. Program: Mechanical Engineering Technology)
COURSE LENGTH: Semester, One Credit
Western Iowa Technical Community College - 3 credits
PREREQUISITE: Intro to Industrial Technology Strongly Recommended
GRADE LEVEL: 10, 11, and 12

COURSE DESCRIPTION:

MDR 1200 Drafting Fundamentals - W.I.T.C.C

This is a beginning course for students with little or no previous experience in drafting. The principal objectives are to acquaint the student with basic drawing equipment, materials, and techniques; to develop skills in engineering lettering, geometric construction, and the ability to produce accurate orthographic drawings. This is a prerequisite for Introduction to VersaCAD. **This is a dual credit course through WITCC.**

COURSE RATIONALE:

It has been said that a picture is worth a thousand words. Students interested in a drafting or engineering career need to be able to communicate using sketches and drawings for mechanical and architectural purposes.

METHOD OF INSTRUCTION:

Students will complete written assignments and drawing assignments on a daily basis as assigned from the textbook.

ASSESSMENT:

Daily work, tests, and completed projects.

CRITICAL OBJECTIVES:

1. Identify basic drafting tools and techniques
2. Demonstrate orthographic views
3. Demonstrate isometric views
4. Demonstrate developments
5. Demonstrate sectioning
6. Demonstrate mechanical and architectural drafting techniques