

**COURSE NUMBER:** HS457  
**COURSE TITLE:** Introduction to VersaCAD  
(W.I.T.C.C. Program: Mechanical Engineering Technology)  
**COURSE LENGTH:** Semester -- 90 minutes every other day, One Credit  
Western Iowa Tech. Community College - Up to Two Credits  
**PREREQUISITE:** Drafting Fundamentals  
  
**GRADE LEVEL:** 11, 12

**COURSE DESCRIPTION:**

**This is a Dual Credit course taught by WITCC.** Students apply background, theory, knowledge, design concepts, and skills of conventional drafting to using a computer drafting system for the creation of engineering drawings. This course is an introduction to computer-aided drafting with the use of VersaCAD software. The student will learn versaCAD's basic commands and progress to specific command sequence operations.

College Course Title: MDR1245-01 Introduction to VersaCAD (2 credits)

\*\* See WITCC College Catalog for Course Descriptions, Program Overview, Career Outlook, and Program Outcomes.

**This course will transfer to a community college 2 year program and may fulfill an elective requirement for a four year college.**

**COURSE RATIONALE:**

Computers are useful tools to speed up the process of mechanical and architectural drawing. Students will have hands on experience of a computer aided drafting program in this course.

**METHOD OF INSTRUCTION:**

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

**ASSESSMENT:**

Daily work, tests, and completed projects.

**CRITICAL OBJECTIVES:**

1. Use VersaCAD commands as tools for creating 2D drawings.
2. Determine the best method to create geometry with the tools at hand.
3. Determine the scale to use for finishing drawings.
4. Plot drawings.
5. Place hatching on drawings
6. Use block references and attributes
7. Manage external references in drawings
8. Dimension drawings
9. Add annotation to drawings