



**COURSE:**        **Basic CAD**                      **EN-1212**                      **Fall 2022**

**INSTRUCTOR:** **Erik Fialkowski**                      Bresnahan Lab 221

CAD Lab Office Hrs: Office hours will be Thurs 11:30-13:50 Rm. 221

**Email:**                      [efialkowski@maritime.edu](mailto:efialkowski@maritime.edu)                      Phone: ext 5296

**TEXT:**                      Handouts, as required

**PREREQUISITE:**    None

**NECESSARY MATERIALS:** Appropriate Laptop with a mouse

**GRADING:**              Quizzes or Homework (10%), Projects (25%), and Final (25%) Attendance (40%)

**ATTENDANCE:.** We will follow whatever system is necessary to achieve completion of Basic CAD. Attendance is mandatory. You must be present in class each week. 2 unexcused absences = (– ½ Grade) .

The Academy offers, upon request, accommodations to students with documented learning disabilities. The ADA Coordinator, Asst. Dean Elaine Craighead, evaluates the documentation provided, determines appropriate services, and is available to discuss accommodations with students. The Disability Resources office is located in the Academic Resource Center, ABSIC 320. Students can drop in during normal business hours, M-F 0800-1600, or call x5120, or email [ADAcompliance@maritime.edu](mailto:ADAcompliance@maritime.edu).

#### **CLASS TOPICS**

Introduction to CAD  
Basic CAD commands  
Orthographic Projection  
Isometric drawing  
Introduction to P&ID's.  
Process diagrams, Piping symbols & blocks  
Complete multiple P&ID drawings  
Review for finals  
Week 14 FINAL

TBD

#### **STUDENT LEARNING OUTCOMES:**

- Understand fundamental concepts of engineering drawings.
- Acquire, evaluate and organize graphical information.
- Identify basic views in an engineering drawing.
- Review methods for representing the graphic design process.
- Ability to read and fully understand a Process & Instrumentation Diagram.
- Reproduce a P&ID with appropriate symbols.
- Student will be able to identify and use various Input/Output files for reproduction.