
MIDDLESEX

COUNTY COLLEGE

COURSE SYLLABUS

Department:	Engineering Technologies
Program:	Engineering Technology (Mech/Civil/Elec)
Course Number:	MEC 123
Title of Course:	Technical Graphics/CAD I
Curriculum Coordinator:	Rick Schieni
Designation:	Required Course

Course Description:

A study of the graphic language of engineering and technology to include line work, geometric construction, scale use, orthographic projection, section and auxiliary views, and dimensioning techniques. Laboratory time is divided between technical sketching and drawings produced using CAD software.

Prerequisite:

None

Co-requisite:

None

Textbooks and /or other required material:

Technical Drawing by Giesecke, Pearson, 15th Ed

Course Learning Outcomes and their relationships to Student Outcomes:

1. Demonstrate the ability to interpret drawings.
2. Use drafting instruments to create orthographic drawings.
3. Use CAD to create orthographic drawings. **(SO a)**
4. Use CAD to create auxiliary view drawings.
5. Use CAD to create section view drawings.
6. Properly dimension a drawing.
7. Generate a complete drawing, fully dimensioned, and plotted to a required drawing scale and paper size. **(SO f)**

Topics Covered:

- Introduction to the Computer Aided Drafting
- Scales
- Geometric construction
- Orthographic projection
- Sectioning
- Auxiliary views
- Dimensioning

Class/Laboratory schedule. Number of sessions each week and duration of each session:

2 lecture hours per week for 14 weeks

4 laboratory hours per week for 14 weeks

Criterion 5 Contribution:

Technical Content

Prepared By:	Joseph Misuraca / Jay Edelson	Date:	9/15/08
Updated By:	Joseph Misuraca	Date:	1/28/10 Rev1
Updated By:	JJM & ACS	Date:	1/20/11 Rev2
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