

Course Syllabus for Computer Aided Drafting

VectorWorks V.12

9:30-10:30 a.m. Friday
Office: DeWitt Scene Shop
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7104

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Fall 2007
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Objective:

To provide students with foundation skills in 2D CAD drafting and at least exposure to 3D drafting.

Course requirements and grading:

Projects: 110 points

#1	File manipulation	10 points
#2	Creating drawings, views etc.	10 points
#3	Symbols and resources	10 points
#4	Simple Floor plan/Elevations	10 points
#5	Hatches, fills and text	10 points
#6	Border, drafting aids	10 points
#7	Dimensions	10 points
#8	Choose Play for Final Proj.	10 points
#9	Present concepts for final proj.	10 points
#10	Draft a design onto DeWitt FP	10 points
#11	Basic 3D modeling	10 points

Final Project: 90 points

Total Points Possible: 200 points

Final Project:

A completed floor plan for chosen show presented on DeWitt floor plan. Include with it elevations of any vertical or overhead scenery, cross sections if needed, notes, dimensions as needed, drawing title boxes and borders.

Extra credit may be obtained by showing some 3D models of platforms or other scenic elements and/or doing a construction plate (e.g. show framing for a flat or platform) giving information the shop would need to build such item.

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Week #:	Topic:	Projects Due:
Aug. 28-31	Getting Started Overview Of Vectorworks Features VectorWorks Standard Workspace Tool Palettes The operating environment	Projects are essentially (usually) drawings saved to USB drive that can be turned in for me to view.
Sep. 3-7	Drawing Structure Organizing Classes & Layers Viewports and Views Visibilities	1. Opening, Saving, Reverting Files
Sep. 10-14	SmartCursor and Constraints VectorWorks Resources, symbols, libraries, creating symbols	2. Create new drawing with layers and classes. Add simple objects and create views and viewports
Sep. 17-21	Creating 2d Objects--Basic Drawing Applying Object Attributes	3. Drawing with symbols applied.
Sep. 24-28	Editing 2d Objects	4. Simple <u>Floor Plan & Elevations</u>
Oct. 1-5	Engineering Properties Drafting Aids	5. Hatches, Fills And Text Project
Oct. 8-12	Dimensioning and Annotating	6. Add drawing border Bolts, hardware structural shapes?
Oct. 15-19 Fall break 15-16	Review/Work on Projects?	7. Adding Dimensions To Your Drawing
Oct. 22-26	Importing and Exporting Files Working Planes Worksheets	8. Choose Play for Final Project
Oct. 29- Nov. 2	Presenting Drawings Cutting Sections Layer Linking Printing Drawings, Scale, Paper Size	9. Ideas or initial work on design presented
Nov. 5-9	Creating 3D Objects	10. Draft Set on DeWitt Plan
Nov. 12-16	3D Modeling	Check progress on Final Design
Nov. 19-23	Editing 3D Objects	11. Basic 3D Objects
Nov. 26-30	Common Functions and Utilities	Check progress on Final Design

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Dec. 3-7

Importing/Exporting DXF/DWG &
Pictures

Check progress on Final
Design

Finals Week

Dec. 10-14

Final Project:

A Sample Set Design