

Blackhawk School District

CURRICULUM

Course Title: CADD I
Course Number: 1035
Grade Level(s): 10-12
Periods Per Week: 5
Length of Course: ½ year
Credits: .5
Faculty Author(s): Tim Linkenheimer
Date: January 2010

COURSE DESCRIPTION: This course involves the use of computer software and hardware as applied to mechanical design and drafting. Students learn to manipulate basic geometric entities (points, lines, and arcs) to create 2-D and 3-D models. Experiences dealing with dimensioning level/layer surfaces and planes are also explored. In order to be eligible, students must have a minimum of a “C” in Intro to Technical Design or Communicating Technical Design. *Intro to CADD is not a prerequisite for Computer Aided Drafting and Design, but is highly recommended*

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
1. Class Orientation	3.4.12.A3. Demonstrate how technological progress promotes the advancement of science, technology , engineering and mathematics (STEM).	2 days	Syllabus	
2. Introduction to Technology	3.4.10.B2. Demonstrate how humans devise technologies to reduce the negative consequences of other technologies .	3 days	Instructor Designed Power Point	
3. Introductory Drawings (Week 1 Drawings)	3.4.10.C1. Apply the components of the technological design process.	4 days	Autodesk Auto CAD Software (School Fusion)	
4. Introductory 2D Drawings (Week 2 Drawings)	3.4.12.C3. Apply the concept that many technological problems require a multi-disciplinary approach.	5 days	Autodesk Auto CAD Software (School Fusion)	
5. Introductory 2D Drawings (Week 3 Drawings)	3.4.12.E4 Synthesize the effects of information and communication systems and subsystems as an integral part of the development of the Information Age.	5 days	Autodesk Auto CAD Software (School Fusion)	
6. Intermediate 2D Drawings (Week 4 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)	
7. Intermediate 2D Drawings (Week 5 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)	
8. Intermediate 2D Drawings (Week 6 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)	
9. Advanced 2D Drawings (Week 7 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)	

10. Advanced 2D Drawings (Week 8 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
11. First Nine Weeks Test		1 days	Autodesk Auto CAD Software (School Fusion)
12. Introductory Orthographic Multi-View Drawings (Week 1 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
13. Intermediate Orthographic Multi-View Drawings (Week 2 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
14. Intermediate Orthographic Multi-View Drawings (Week 3 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
15. Advanced Orthographic Multi-View Drawings (Week 4 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
16. Advanced Orthographic Multi-View Drawings (Week 5 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
17. Auxiliary Orthographic Multi-View Drawings (Week 6 Drawings)		5 days	Autodesk Auto CAD Software (School Fusion)
18. Sectional Orthographic		5 days	Autodesk Auto CAD Software (School Fusion)

Multi-View Drawings (Week 6 Drawings) 19. CADD I Final		1 days	Autodesk Auto CAD Software (School Fusion)	
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