Blackhawk School District

CURRICULUM

Course Title: CADD II

Course Number: 1036 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 is designed to explore advanced aspects of CADD, including advanced drawing, design and editing. Students will learn how to draw advanced 2-Dimensional Orthographic Drawings including sectional, auxiliary, and assembly drawings. Students will also learn how to draw advanced 3-Dimensional Problems. Finally students will use their own creativity to design various Mechanical objects to solve a specific problem. In order to be eligible, students must have a minimum of a "C" in CADD I.

	COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
1.	Class Orientation	3.4.12.A3.	2 days	Syllabus	
		Demonstrate how technological progress promotes		(School Fusion)	
2.	Introductory Assembly	the advancement of science, technology,	5 days	Autodesk Auto	
	Drawings (Week 1)	engineering and mathematics (STEM).		CAD Software	
		3.4.10.B2.		(School Fusion)	
		Demonstrate how humans devise technologies to			
3.	Intermediate Assembly	reduce the negative consequences of other	5 days	Autodesk Auto	
	Drawings (Week 2)	technologies.		CAD Software	
		3.4.10.C1.		(School Fusion)	
		Apply the components of the technological design			
		process.	_ ,		
4	Advanced Assembly	3.4.12.C3.	5 days	Autodesk Auto	
	Drawings (Week 3)	Apply the concept that many technological problems		CAD Software	
	Diawings (weeks)	require a multi-disciplinary approach.		(School Fusion)	
		3.4.12.E4		(Sensor Lasion)	
5.	BC3 Competition Drawings	Synthesize the effects of information and	5 days	Autodesk Auto	
	(Week 4)	communication systems and subsystems as an		CAD Software	
		integral part of the development of the Information		(School Fusion)	
		Age.		(School Pusion)	
			5 days	Autodesk Auto	
6.	BC3 Competition Drawings			CAD Software	
	(Week 5)			(School Fusion)	
				(School Pusion)	
			5 days	Autodesk Auto	
7.	BC3 Competition Drawings			CAD Software	
	(Week 6			(School Fusion)	
				(School Fusion)	
			5 days	Autodesk Auto	
			222.7	CAD Software	
	DC2 Competition Drawing			(School Fusion)	
8.	BC3 Competition Drawings (Week 7)			(School Fusion)	
	(vveek /)		5 days	Autodesk Auto	
				CAD Software	
				CAD Software	

9. BC3 Competition Drawings (Week 8)		(School Fusion)
, ,	2 days	Autodesk Auto
10. Third Nine Weeks Drawing		CAD Software (School Fusion)
Test		(School Fusion)
	5 days	Autodesk Auto
11. 3D Wire Frame Drawings		CAD Software (School Fusion)
(Week 1)		(School Lusion)
	5 days	Assault de la Assault
12. 3D Solid Model Drawings	3 days	Autodesk Auto CAD Software
(Using Auto-CAD) (Week 2)		(School Fusion)
13. Introductory 3D Solid Model	<i>5</i> 1	Autodesk Inventor
Drawings (Week 3)	5 days	Software
		(School Fusion)
14. Introductory 3D Solid Model Drawings (Week 4)		
Drawings (Week 4)	5 days	Autodesk Inventor
15. Intermediate 3D Solid		Software (School Evgion)
Model Drawings (Week 5)		(School Fusion)
	5 days	Autodesk Inventor
		Software (School Fusion)
16. Intermediate 3D Solid		(Selicol Lusion)
Model Drawings (Week 6)	5 days	Autodesk Inventor
		Software (School Fusion)
17. Intermediate 3D Solid	5 days	
Model Drawings (Week 7)	3 uays	Autodesk Inventor Software
		(School Fusion)
18. Advanced 3D Solid Model Drawings (Week 8)	~ 1	
Diawings (Week o)	5 days	Autodesk Inventor Software

		(School Fusion)
19. Advanced 3D Solid Model Drawings (Week 9)	2 days	Autodesk Inventor Software (School Fusion)
20. CADD II Final		