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. Demonstrate how technological progress promotes the advancement of science, **technology**, engineering and mathematics (**STEM**). 3.4.10.B2. Demonstrate how humans devise **technologies** to reduce the negative consequences of other **technologies**. 3.4.10.C1. Apply the components of the technological design process. 3.4.12.C3. Apply the concept that many technological problems require a multi-disciplinary approach. 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.	2 days	Syllabus (School Fusion)	
2. Introductory Assembly Drawings (Week 1)		5 days	Autodesk Auto CAD Software (School Fusion)	
3. Intermediate Assembly Drawings (Week 2)		5 days	Autodesk Auto CAD Software (School Fusion)	
4. Advanced Assembly Drawings (Week 3)		5 days	Autodesk Auto CAD Software (School Fusion)	
5. BC3 Competition Drawings (Week 4)		5 days	Autodesk Auto CAD Software (School Fusion)	
6. BC3 Competition Drawings (Week 5)		5 days	Autodesk Auto CAD Software (School Fusion)	
7. BC3 Competition Drawings (Week 6		5 days	Autodesk Auto CAD Software (School Fusion)	
8. BC3 Competition Drawings (Week 7)		5 days	Autodesk Auto CAD Software (School Fusion)	
		5 days	Autodesk Auto CAD Software	

9. BC3 Competition Drawings (Week 8)			(School Fusion)	
10. Third Nine Weeks Drawing Test		2 days	Autodesk Auto CAD Software (School Fusion)	
11. 3D Wire Frame Drawings (Week 1)		5 days	Autodesk Auto CAD Software (School Fusion)	
12. 3D Solid Model Drawings (Using Auto-CAD) (Week 2)		5 days	Autodesk Auto CAD Software (School Fusion)	
13. Introductory 3D Solid Model Drawings (Week 3)		5 days	Autodesk Inventor Software (School Fusion)	
14. Introductory 3D Solid Model Drawings (Week 4)		5 days	Autodesk Inventor Software (School Fusion)	
15. Intermediate 3D Solid Model Drawings (Week 5)		5 days	Autodesk Inventor Software (School Fusion)	
16. Intermediate 3D Solid Model Drawings (Week 6)		5 days	Autodesk Inventor Software (School Fusion)	
17. Intermediate 3D Solid Model Drawings (Week 7)		5 days	Autodesk Inventor Software (School Fusion)	
18. Advanced 3D Solid Model Drawings (Week 8)		5 days	Autodesk Inventor Software	

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