Blackhawk School District

CURRICULUM

Course Title:	**Architectural CADD I**
Course Number:	**1035**
Grade Level(s):	**10-12**
Length of Course:	**1 semester**
Credits:	**.5**
Faculty Author(s):	**Dale Moll**
Date:	**January 2010**

COURSE DESCRIPTION:

This Course is designed to explore the use of CADD in Architecture, with emphasis on the use of Autodesk Revit. All students enrolling in this course must have taken Architectural and Civil Drafting (1032) or be enrolled in Architectural and Civil Drafting in the same year as Architectural CADD.

COURSE OUTLINE	OBJECTIVES (PA standard)	PROPOSED TIME / ACTUAL TIME	RESOURCES	LESSON REFLECTION (for future revisions)
Review of class outline and software **House design talk about altering design of existing plans to meet buyers needs** **House design altering projects (2 Projects)** **Site and landscaping** **Walkthroughs and renderings** **Multi level designing** **Class Design** **Independent Designs** • **Research** • **Design** • **Presentation** • **Model**	3.4.12.A2. Describe how management is the process of planning, organizing, and controlling work. 3.4.12.A3. Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). 3.4.10.B3.Compare and contrast how a number of different factors, such as advertising, the strength of the economy, the goals of a company and the latest fads, contribute to shaping the design of and demand for various technologies. 3.4.10.B4. Recognize that Technological development has been evolutionary, the result of a series of refinements to a basic invention. 3.4.12.B1. Analyze ethical, social, economic, and cultural considerations as related to the development, selection, and use of technologies. 3.4.12.B2. Illustrate how, with the aid of technology, various aspects of the environment can be monitored to provide information for decision making. 3.4.10.C1. Apply the components of the technological design process. 3.4.12.C2. Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. 3.4.12.C3.	2 Days 3 Days 30 Days 2 Days 4 Days 2 Days 10 Days 17 Days	Computers, Software(Autodesk Revit Windows Movie Maker) Laser Printer, Plotter, Projector, Promethean Board Foam Board Binders	

	Apply the concept that many technological problems require a multi-disciplinary approach. 3.4.12.D2. Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. 3.4.10.D3. Synthesize data, analyze trends, and draw conclusions regarding the effect of technology on the individual, society, and the environment. 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. 3.4.12.E6. Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world. 3.4.12.E7. Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world.			