Architectural Drafting

Course Syllabus 2015-2016

COURSE DESCRIPTION

Everything that has been constructed from houses and skyscrapers to bridges and super-highways start off as drawings. Those drawings are using CAD (Computer Aided Drafting)

     This class will cover both engineering and architectural CAD techniques. Students will learn how to take a design sketch and turn it into a technical drawing that can be used to make a part that could be used to build an addition on a house.

     If you are interested in a career in engineering, architecture, or design, then CAD is the class for you. This class offers dual credits through Ivy Tech Community College. This class will meet in school and outside of school to fulfill the requirement of the cooperative program. This course is a prerequisite for Architectural Drafting and Design II.

COURSE OBJECTIVES

Upon the successful completion of this course, the student will be able to:

- Define and apply major concepts of the design process related to architectural drafting.
- Demonstrate competency in the sketching, technical writing, and formal presentations.
- Demonstrate competency in the use of CAD software.
- Identify major areas of growth within the architecture field.
- Apply major concepts from the history of architecture.
- Demonstrate knowledge of blueprint development and construction documents.
- Demonstrate ability to modify current structure based on new set of construction methods.
- Demonstrate the ability to use dimensions correctly.
- Develop 3 dimensional renderings to demonstrate the use of realism.
- Develop coursework portfolio
- Develop a working knowledge for real world profession.
- Build connections with industry professionals.

REQUIRED TEXT & MATERIALS

Architecture- Residential Drafting and Design. 2008. Kicklighter.
3" 3 Ring Binder- with Tabs
Pencils (mechanical or regular)
Pens (blue or black)
Note book

EVALUATION CRITERIA

	Total Points
Unit Projects (1-4) (200pts each)	800
Daily Performance (5pts daily- 180 days)	900
Additional Assignments	100
Activities (25pts each)	900
Quizzes (1-4) (50 points each)	200
Final (20%)	580
TOTAL	3480

MSD Warren Township
Grade Scale

100-92.5=A
92.4-89.5=A-
89.4-86.5=B+
86.4-82.5=B
82.4-79.5=B-
79.4-76.5=C+
76.4-72.5=C
72.4-69.5=C-
69.4-66.5=D+
66.4-62.5=D
62.4-59.5=D-
Below 59.5=F

COURSE OUTLINE

Unit 1 CADD Introduction
- Lesson 1.1 AutoCAD Program (13 days):
- Lesson 1.2 Isometrics and Orthographics (10 days):
- Lesson 1.3 Drawing Symbols (4 days):

Unit 2 Document Reading
- Lesson 2.1 Scale Reading (3 Days):
- Lesson 2.2 Sketching (8 Days):
- Lesson 2.3 AutoCAD sketching (9 Days):

Unit 3 Blueprint Development
- Lesson 3.1 Building Layouts and Renovations (8 days):
- Lesson 3.2 Elevations and Schedules (15 days):
- Lesson 3.3 Blueprints to Models (15 days):

Unit 4 Blueprint Details
- Lesson 4.1 Design and Development (4 Days):
- Lesson 4.2 Specialty Plans (10 Days):
- Lesson 4.3 Safety and Code (8 days):

Unit 5 Commercial Development
- Lesson 5.1 Building Types (5 Days):
- Lesson 5.2 Specialty Plans (10 Days):
- Lesson 5.3 Topography (7 days):

Unit 6 Urban Planning
- Lesson 6.1 Urban Layouts (15 days)
- Lesson 6.2 Urban Site Development (22 days)