IVY TECH COMMUNITY COLLEGE

DESN 103, CAD FUNDAMENTALS
SYLLABUS FALL 2013

COURSE TITLE: CAD Fundamentals
COURSE NUMBER: DESN 103
PREREQUISITES: None
SCHOOL: Technology
PROGRAM: Design Technology
CREDIT HOURS: 3
CONTACT HOURS: Lecture: 2 Lab: 2
DATE OF LAST REVISION: Summer, 2011
EFFECTIVE DATE OF THIS REVISION: Fall, 2013
Instructor Modified, 8/17/12
Instructor: David Cole   dcole35@ivytech.edu
Office TC 1101   Hours: M: 1pm - 2pm, W: 10am – 12pm, Th: 4pm – 6pm
Dept Head; Erin Salyers 260-480-4203   esalyers@ivytech.edu TC 1123

CATALOG DESCRIPTION: The purpose of this introductory course is to provide students with a basic understanding of the features and considerations associated with the operation of a computer-aided design (CAD) system. Students will gain valuable hands on experience using CAD software. They will be expected to complete several projects (increasing in difficulty) relating to command topics covered on a weekly basis.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:
1. Identify by name CAD hardware and software components.
2. Do commands for file management including format, copy, and delete.
3. Identify and use multiple input methods to select commands on the CAD system.
4. Retrieve and use help commands.
5. Create working 2D drawings.
6. Modify drawing elements using editing commands.
7. Retrieve and place multiple text styles.
8. Dimension a drawing using current drafting standards.

COURSE CONTENT: Topical areas of study include –

Objects	Layers
Setup	Styles
Formatting	Object modification
View characteristics	Printing/Plotting
Exporting	

RECOMMENDED TEXT AND CURRICULUM MATERIALS
AutoCAD and its Applications. Shumaker, T. et. al. 19th Edition ISBN 9781605255613
Zip (Thumb) drive.

COURSE OUTLINE:

Week
1   Introduction
2   Templates
3   Lines, Offset, Trim Zero Radius Fillet, Snap, Grid, Ch3, 11
4   Circles, Arc, Fillet, Chamfer, polygon   Ch4, 11
5   Layers, Ch5   Plotting, Chapter 6   Test 1 Review
6   Object Snap, Chapter 7   TEST 1
7   Text   Ch9, 10
8   Editing   Ch12
9   TEST 2
10   Dimensioning Ch 16, 17 & 18 Start Final Project
11   Hatching   Ch23
12   GD&T   Ch19
13   Xrefs   Ch31
14   Catch-Up
15   Final Project Due
16   Final Exam

Exact order of topics covered each week are at the discretion of the instructor.

EVALUATION

In-Class Exercises   40%
Tests   20%
Final Project   25%
Final Exam   15%

A = 92% - 100%
B = 84% - 91%
C = 77% - 83%
D = 70% - 76%

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Students wishing to graduate from either the School of Applied Science and Engineering or the School of Technology, from Ivy Tech Community College Northeast must complete at least 12 semester hours of Management and/or Technical training. This requirement is concurrent with the college requirement that each student must complete 15 semester hours at this institution.

Students transferring to Ivy Tech Community College Northeast and entering the School of Applied Science and Engineering or the School of Technology must also meet the 12 semester hours of Management and/or Technical training. Credits considered for transfer may be from another Ivy Tech ATMAE accredited campus or obtained from an ATMAE accredited institution.