DESN 113 - Intermediate CAD

Course Title:	Intermediate CAD
Course Number:	DESN 113
Section Number:	50C
Term:	Spring 2013
Location:	Fort Wayne North Campus, Technology Center, Room TC1425
Prerequisites:	DESN 102 Technical Graphics and DESN 103 CAD Fundamentals
School:	Technology
Program:	Design Technology
Credit Hours:	3
Contact Hours:	4 --- 2 Lecture, 2 Lab

Instructor:	Rob Townsend, Assistant Professor, Design Technology
	e-mail: rtownsen@ivytech.edu
	Phone: 480-4239
	Office: TC1104
	Office Hours: Tue 10:00-12:00, Wed & Thurs 9:00-12:00

Required Text:	*AutoCAD and its Applications Basics 2012 - 19th ed.,* by Shumaker, ISBN 9781605255613
Required Equipment:	USB Flash Drive (min 512 MB) to save your work. 4 GB cost $10. Recommended brands; SanDisk, Memorex, PNY, or Kingston
	You are responsible for maintaining your data. I strongly recommend that you backup your flash drive to your computer's hard drive.

Catalog Description:	This intermediate course improves the student's CAD ability by presenting intermediate CAD commands, which will lead to the creation of advanced prototype drawings, graphic manipulation of symbol libraries, the utilization of advanced dimensioning techniques, and application of data sharing techniques. Detailed plotting instruction will also be covered. Students will be expected to complete several projects relating to command topics covered on a weekly basis.

Course Content:	Topical areas of study include:
	Objects, Setup, Formatting
	View characteristics, Exporting, Layers
	Styles, Object modification, and Printing/Plotting

Major Course Learning Objectives:	Upon successful completion of this course the student will be expected to:
(1)	Create and use a prototype drawing.
(2)	Manipulate advanced dimension variables.
(3)	Use advanced editing commands to aid in the creation of projects.
(4)	Create blocks and form a symbol library.
(5)	Assign data/attributes to bolcks.
(6)	Apply section lines to various types of drawing parts.
(7)	Create projects using an isometric approach.
(8)	Share data utilizing external references.
(9)	Set up a plotter, and plot a drawing.

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Weekly Agendas:	An agenda will be given each week of class. Each agenda provides; reading assignments, exercises, and homework assignments.
Class Format:	The format of the class is "Demonstration" immediately followed by "Open Lab". The Demo - Open Lab pattern is repeated several times each class session as necessary to cover the assigned course material. It is your responsibility to pay attention to the demonstration portion of the class so that you will be able to understand each lab exercise. Many students are able to complete all of the lab exercises during the open lab time. If not, then you may complete the exercises as part of your homework assignment.
Class Participation:	You are expected to participate in every class by: (1) listening carefully, (2) taking notes, tests, and working on the project (3) answering questions asked by the instructor, (4) asking the instructor questions that may arise during class, (5) respecting the instructor and fellow students by refraining from unnecessary talking and discussions during the lecture/demonstration portion of class, and (6) keeping your desk/computer neat and clean.
Homework:	Homework will be assigned at the end of most of the weekly agendas. You are expected to complete each homework assignment before the next class. I do not collect homework. However, it is in your best interest to complete the homework assignments in order to be prepared for the tests, which are based on the homework assignments.

Tests:	Test 1: Chapters - TBA
	Test 2: Chapters - TBA

Grading Policy:	Class Participation: 10%
	Test 1: 25%
	Test 2: 30%
	Project: 35%

Grading Scale:	A: 90.0 - 100%
	B: 80.0 - 89.9%
	C: 70.0 - 79.9%
	D: 60.0 - 69.9%
	F: less than 60.0%
	I: An Incomplete course grade is only given for medical reasons with a doctor's note.

| Attendance Policy: | You are expected to attend every class. Attendance is taken and recorded. Multiple absences and/or tardiness will result in a reduction in the class participation portion of your grade. If you miss a class, you are responsible to: (1) get a copy of the agenda(s) and lecture notes from a fellow student {I do not repeat lectures or supply copies of my lecture notes.} and (2) be prepared for the next class session including; taking a test or submitting the final project. If you must miss a test, notify the instructor as soon as you become aware of this fact. A missed test may be made-up only at the discretion of the instructor with a 5% late test penalty. |

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Weekly Schedule

wk 1 - 1/15	Chapter: TBA
wk 2 - 1/22	Chapter: TBA
wk 3 - 1/29	Chapter: TBA
wk 4 - 2/5	Chapter: TBA
wk 5 - 2/12	Chapter: TBA
wk 6 - 2/19	Chapter: TBA
wk 7 - 2/26	Chapter: TBA
wk 8 - 3/5	**Test 1**
wk 9 - 3/19	Chapter: TBA
wk 10 - 3/26	Chapter: TBA
wk 11 - 4/2	Jack Plane Project
wk 12 - 4/9	Jack Plane Project
wk 13 - 4/16	Jack Plane Project
wk 14 - 4/23	Jack Plane Project
wk 15 - 4/30	Jack Plane Project
wk 16 - 5/7	**Jack Plane Project Due at the Beginning of Class --- Test 2**

Last Date to Drop Without a Grade:	Friday, April 12, 2013
	If you are not able to withdraw using campus connect then you must go to the Registrars' office to withdraw.

Computer Lab:	The computer lab is owned by the college and maintained by the Design Technology Program Faculty. You are guests in this computer lab. As such I expect that you will conduct yourself accordingly. Drinks with a sealed cap are allowed (i.e. water or soda bottles). Drinks with an open top are not allowed (i.e. coffee cups or soda cans). Non-messy food items are allowed. If you have a spill or make a mess you are expected to clean it up. You must **log-on** using your campus connect username and password. Please notify the instructor of any problems with the computer equipment. You are expected to straighten out the computer, monitor, keyboard, mouse pad, mouse, and chair before you leave. Also, close all open programs, **log-off**, and "shut-down" the computer before you leave. You do not need to press the on/off buttons on the computer or monitor as they will automatically go into sleep mode.

Comments:	Each new concept in Intermediate CAD builds upon the previously presented material. You must keep up with the pace of the class. It is very difficult to catch up, if you allow yourself to fall behind.
	Feel free to ask questions during the class session.
	Please see me during my office hours if you find yourself struggling with this course.

How to Access the Ivy Tech Community College Library:	The Ivy Tech Library is available to students' on- and off-campus, offering full text journals and books and other resources essential for course assignments. Go to http://www.ivytech.edu/library/ and choose the link for your campus.

Academic Honesty Statement:	The College is committed to academic integrity in all of its practices. The faculty values intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality of, and diminish the value of, educational achievement.
	Cheating on papers, tests, or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

Copyright Statement:	Students shall adhere to the laws governing the use of copyrighted materials. They must insure that their activities comply with fair use and in no way infringe on the copyright or other proprietary rights of others and that the materials used and developed at Ivy Tech Community College contain nothing unlawful, unethical, or libelous and do not constitute any violation of any right of privacy.

ADA Statement:	Ivy Tech Community College seeks to provide effective services and accommodations for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, you are required to register with Disability Support Services at the beginning of the semester. If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classrooms.
Disability Support Services:	Charlene Lommatzsch, Harshman Hall Room 1710, phone 480-2278
	Todd Nichols, Harshman Hall Room 1714, phone 481-2210
	Hours: Monday - Thursday 8:00 AM - 7:00 PM and Friday 8:00 AM - 5:00 PM

ATMAE Requirements:	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.

Smoking Policy:	Breathe easy. Ivy Tech–Northeast is committed to providing a healthy, comfortable and productive environment for the students, faculty and staff of this campus. The use or sale of any tobacco product is prohibited on college-owned, operated, or leased property or vehicles at any time. The policy applied to all Ivy Tech–Northeast facilities and grounds, regardless of location. Smoking, including the use of an e-cigarette, shall not be permitted in any enclosed space and is also prohibited outdoors on all college campus property, including parking lots. This policy applies to all students, faculty, staff and visitors. Tickets and fines will be issued to violators.

Right of Revision Statement:	This is a tentative course syllabus. The Instructor reserves the right to make changes to the syllabus at any time. You are responsible to know and comply with all of the information contained in this syllabus and, if necessary, any revisions announced or handed out in class.