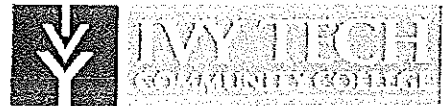


DESN 103 - CAD Fundamentals



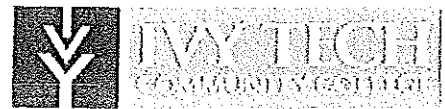
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| Course Title: | CAD Fundamentals |
| Course Number: | DESN 103 |
| Section Number: | 21C |
| Term: | Spring 2012 |
| Location: | Fort Wayne North Campus, Technology Center, Room TC1425 |
| Prerequisites: | None - technically speaking. However, you must have a working knowledge of the Microsoft Windows operating system, especially file management. If you are completely new to computers you should drop this course immediately and replace it with the CINS 074 Computer Literacy class. |
| School: | Technology |
| Program: | Design Technology |
| Credit Hours: | 3 |
| Contact Hours: | 4 --- 2 Lecture, 2 Lab |
| Instructor: | <p>Rob Townsend, Design Technology Program Chair e-mail: rtownsen@ivytech.edu Phone: 480-4239 Office: TC1123 Office Hours: Tuesday 9:30 - 12:00 & 1:00 - 5:30 and Thursday 4:30 - 5:30</p> |
| Required Text: | <i>AutoCAD and its Applications Basics 2012 - 19th ed.</i> , by Shumaker, Madsen, and Madsen |
| Required Equipment: | <p>USB Flash Drive (min 512 MB) to save your work. 2 GB cost \$10 - \$15. Recommended brands; SanDisk, PNY, Kingston, or Memorex (not Lexar) You are responsible for maintaining your data. I strongly recommend that you backup your flash drive to your computer's hard drive.</p> |
| 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. |
| Course Content: | <p>Topical areas of study include:</p> <p>Objects, Layers, Setup, Styles, Formatting, Object Modification, View Characteristics, Printing/Plotting, and Exporting.</p> |
| Major Course Learning Objectives: | <p>Upon successful completion of this course the student will be expected to:</p> <ol style="list-style-type: none"> (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. |

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| Weekly Agendas: | An agenda will be given each week of class. The 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: | <table border="1"> <tr> <td data-bbox="337 926 808 961">Test 1: Chapters 1, 2, 3, 4, 5, 6, & 15</td> </tr> <tr> <td data-bbox="337 961 808 997">Test 2: Chapters 7, 8, 9, 10, & 11</td> </tr> <tr> <td data-bbox="337 997 808 1045">Test 3: Chapters 12, 16, 17, 18, & 23</td> </tr> </table> | Test 1: Chapters 1, 2, 3, 4, 5, 6, & 15 | Test 2: Chapters 7, 8, 9, 10, & 11 | Test 3: Chapters 12, 16, 17, 18, & 23 | | | |
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| Test 2: Chapters 7, 8, 9, 10, & 11 | | | | | | | |
| Test 3: Chapters 12, 16, 17, 18, & 23 | | | | | | | |
| Grading Policy: | <table border="1"> <tr> <td data-bbox="337 1073 618 1108">Class Participation: 10%</td> </tr> <tr> <td data-bbox="337 1108 472 1144">Test 1: 20%</td> </tr> <tr> <td data-bbox="337 1144 472 1180">Test 2: 20%</td> </tr> <tr> <td data-bbox="337 1180 472 1215">Test 3: 25%</td> </tr> <tr> <td data-bbox="337 1215 472 1251">Project: 25%</td> </tr> </table> | Class Participation: 10% | Test 1: 20% | Test 2: 20% | Test 3: 25% | Project: 25% | |
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| Test 2: 20% | | | | | | | |
| Test 3: 25% | | | | | | | |
| Project: 25% | | | | | | | |
| Grading Scale: | <table border="1"> <tr> <td data-bbox="337 1289 516 1325">A: 90.0 - 100%</td> </tr> <tr> <td data-bbox="337 1325 521 1360">B: 80.0 - 89.9%</td> </tr> <tr> <td data-bbox="337 1360 521 1396">C: 70.0 - 79.9%</td> </tr> <tr> <td data-bbox="337 1396 521 1432">D: 60.0 - 69.9%</td> </tr> <tr> <td data-bbox="337 1432 553 1467">F: less than 60.0%</td> </tr> <tr> <td data-bbox="337 1488 1328 1520">I: An Incomplete course grade is only given for medical reasons with a doctor's note.</td> </tr> </table> | 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. |
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| 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. | | | | | | | |
| 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. | | | | | | |

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| 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. |
| Last Date to Drop Without a Grade: | Friday, April 06, 2012 If you are not able to withdraw using campus connect then you must go to the Registrars' office to withdraw. |
| Comments: | Each new concept in Advanced 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. |
| 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. |
| 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: | Tina Horn, Harshman Hall Room 1712, phone 481-2253 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. |
| 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. |