Eastfield College
Career Technologies Division

Spring 2015
Intermediate Computer Aided Drafting
DFTG 2419.43426 – 4 Credit Hours

Internet Based Class

Instructor: Tina Goitia

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Course Description

DFTG 2419.4426 Intermediate Computer-Aided Drafting
Prerequisite: Basic Computer-Aided Drafting or the approval of the instructor.
Course Description: The fundamentals of computer aided drafting using an alternative computer aided drafting program. Emphasis is placed on drawing set-up; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects; adding text and dimensions; using layers and coordinating systems; as well as using input and output devices. (2 Lec., 6 Lab.)

Textbooks and Other Course Materials:

Computer, Scanner, Internet access, Software: Windows Media Player and AutoCAD, small spiral notebook, calculator and at least a 2Gb flash drive.

Developmental Courses

The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student’s basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college-level classes such as English 1301/1302, History 1301/1302, Math 1414, etc. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. In some cases retesting will also be required. It is up to each student to be aware and informed about requirements that are subject to change. Additional information is available from the TSI Office.
https://www1.dcccd.edu/cat0910/admiss/tsi.cfm?loc=4
Course Objectives:

- Describe and demonstrate the process of visualization and construction of orthographic, isometric, and section views.
- Demonstrate and explain the theory and practice of dimensioning.
- Explain the importance of standards (ASME and ISO) in the modern engineering graphics environment.
- Demonstrate the techniques of specifying threads and fasteners.
- Demonstrate the creation of Isometric Drawings
- Demonstrate the steps to convert 3D models into 2D orthographic and isometric views. Describe the theory and techniques for creating detail and assembly drawings of complex machines.

Evaluation Procedures:

90% of your grade for the course is based on drawing assignments, 10% is based on quizzes and the final exam.

Obtaining Final Course Grades Using eConnect

Final Grade Reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office.

Eastfield College Email Policy

Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to: Https://www1.dcccd.edu/netmail/input_ssn.cfm

Attendance Policy:

On line students are required submit all assignments due prior to the 11th day of class in order to verify their attendance. If the assignments are not submitted the student risks the loss of financial aid benefits. All assignments due must be submitted by the eleventh class day on February 1st, 2015

Course Outline:

Drawing Due Date:
Drawings due dates are posted on Blackboard. Once graded, the student will have three days to correct the drawing and resubmit it for a maximum score of 90. Drawings turned in late are not eligible to be resubmitted.

Title all and save work as follows: SP15.DFTG2419.First Intial.Last Name.Drawing Name. Add revised to the title if it is your second submission of work.

Title the drawing, file, and e-mail with: SP15.DFTG.2419.T.Goitia.P5.2.revised. Email Completed work to: tinagoitia@yahoo.com.

Drawing Deadline: Drawings submitted three days past the due date will have 10 points deducted. An additional 5 points will be deducted each day thereafter. The final exam and any quizzes are due the day assigned, no exceptions.

Locate DFTG 2419 Assignments Listed Below and on Blackboard

April 16th, 2015 is the Last Day to Withdraw from the Course
Financial Aid Statement

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Financial Aid Statement for Distance Learning Classes

If you are receiving Financial Aid grants or loans and are enrolled in a Distance Learning class, you must show participation in this class prior to the certification date by either e-mailing or contacting the instructor or logging on to eCampus. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds. All assignments due must be submitted by the eleventh class day on February 1st, 2015.

Repeating This Course: (Third Attempt to Enroll in a Course)

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Academic Honesty Statement

Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student’s test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work. Collusion is the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. Academic dishonesty is a serious offense in college. You can be given a failing grade on an assignment or test, can be failed for the class, or you can even be suspended from college.

Food and Drink Policy

Food, drinks, and tobacco products are prohibited in Eastfield College classrooms.

If you are teaching in a non-lab classroom, you may allow for food and drink, but you must comply with college requirement of a statement of responsibility from each student. See "Food and Drink Policy" attached as .pdf file.
ADA Statement

Students with a physical, mental or learning disability who require accommodations should contact the college Disability Services Office in C237. Call 972.860.8348 or email efcdso@dccd.edu. For more information: http://www.eastfieldcollege.edu/SSI/DSO/index.html

Religious Holidays

Absences for observance of a religious holy day are excused. Notification of the absence must be given to the instructor in writing at least two weeks prior to the date of the holy day. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within at a mutually agreed upon time after the absence.

Withdrawal Policy

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by April 16th, 2015. Failure to do so will result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office.

STOP BEFORE YOU DROP

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://ww1.dcccd.edu/coursedrops

Family Educational Rights and Privacy Act of 1974 (FERPA)

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

Classroom Etiquette

Cell phones should be turned off in when using the CAD Lab.
Abuse or profane languages are not allowed.

The instructor reserves the right to amend this syllabus as necessary.
Assignment 1 - Chapter 1, 2 & Orientation Assignment Due Date 1.24.15

Attached Files:
- Form 3 Titleblock.jpg (23.609 KB)
- Size A Sheet.jpg (43.288 KB)
- DFTG 2419 Titleblock Activity.wmv (6.156 MB)
- Standard Layer Properties.doc (28.5 KB)

Visit: http://www.autodesk.com/education/free-software/all and download AutoCAD if you do not already have it installed. I will be running 2014 but if you are running a little bit older version it should run fine.

Orientation Assignment: Draw an A Sheet Layout with form 3 titleblock. Email to tinagoitia@yahoo.com as an AutoCAD (dwg) drawing.

The above assignment serves as verification that you are enrolled in the class. Failure to submit the drawing by the 4th class day may result in the loss of financial aid benefits.

The titleblock instruction video is located below.

Read Chapter 1. Getting Started
Read Chapter 2. Basic Drawing Skills

Assignment: Size A Sheet – Form 5 Titleblock

Assignment 2: Safety Key Assignment Due: 1.31.15

Complete a multiview of the safety key using a size A sheet and form 5 title block. Make sure to include layers, hidden lines, dimensions, and center lines.

The drawing, layer properties sheet and title specs are attached.

Assignment 3 Chapter 1 Due 2.7.15

The AutoCAD Essentials book is geared toward AutoCAD Certification.

A lot of the book work consists of reading and navigating the various options for different tools.

I will provide videos which summarize some of the activities and the student will complete other activities on their own.

Chapter One:

View the Sheet Sets Video and then use AutoCAD to complete the activity on your own.

Read Exploring Workspaces and complete the activities on your own.

View the Setting Units Video, create a template named Architecture.Your Intials. Snapshot the screen and send a jpeg of your template. (See Video)

Assignment 4 Chapter 2 Due: 2.14.15

Open Drawing Ch2-A from the downloaded files.

View the Navigating 2D Video and practice the activities.
Read Drawing Lines and Rectangles and practice the activities.

Read Canceling, Erasing, and Undoing and practice the activities.

Read Drawing Circles, Arcs, and Polygons and practice the activities

Read Filleting and Chamfering Lines and practice the activities.

Complete the attached drawing as an orthographic projection with dimensions. Title it assignment three.

Assignment 5 Chapters 3 & 8 Due 2.21.15
- Hatching and Gradients 8A.wmv (1.953 MB)
- Ch8-A.dwg (61.444 KB)
- Hatching and Gradients 8B and 8C.wmv (2.034 MB)

Read Chapter 3 - Using Drawing Aids

Scan the through the activities. If there is a concept that you are not familiar with, then work through the activity as a self-study.

Read Chapter 8 - Hatching and Gradients

Open Drawing 8-A. (Attached)

Complete the Selecting Objects to Define Boundaries activity. Submit your work as Ch8-C.

Complete the Associating Hatches and Boundaries activity. Submit your work as Ch8-D.

Complete the Hatching with Patterns activity. Submit your work as Ch8-E.

Complete the Separating Hatch Areas activity. Submit your work as Ch8-F.

Complete the Hatching with Gradients activity. Submit your work as Ch8-G.

Assignment 6 - Chapters 4 & 9 Due 2.28.15
- Ch9-CoreShell.dwg (69.244 KB)
- Ch9-D.dwg (288.896 KB)
- Ch9-A.dwg (271.471 KB)
- Ch9-C.dwg (288.896 KB)

Read Chapter 4.

Scan the through the activities. If there is a concept that you are not familiar with, then work through the activity as a self-study.

Read Chapter 9 - Working with Blocks and Xrefs.

Open the Ch9-A drawing. (Attached)

Complete the Writing a Local Block Definition to a File activity.

Complete the Inserting a Drawing as a Local Block activity. Submit your work as Ch9-B.

Complete the Redefining Local Blocks and Global Blocks activity. Submit your work as Ch9-C.

Open the Ch9-C drawing. (Attached)

Complete the Accessing Content Globally activity. Submit your work as Ch9-D.

Open the Ch9-D drawing. (Attached)
Complete the Storing Content on Tool Palettes activity. Submit your work as Ch9-E.

Open the Ch9-CoreShell drawing. (Attached)

Complete the Referencing External Drawings and Images activity. Submit your work as Ch9-G.

Assignment 7 - Chapters 5 & 10 Due 3.7.15

Read Chapter 5.
Scan the through the activities. If there is a concept that you are not familiar with, then work through the activity as a self-study.

Read Chapter 10.

Open the Ch10-A drawing. (Attached)
Complete the Creating Text Styles activity. Submit your work as Ch10-B.

Open the Ch10-B drawing. (Attached)
Complete the Creating Text to Fit activity. Submit your work as Ch10-B.

Open the Ch10-C drawing. (Attached)
Complete the Justifying Text activity. Submit your work as Ch10-D.

Open the Ch10-D drawing. (Attached)
Complete the Transforming and Creating Text activity. Submit your work as Ch10-E.

Open the Ch10-E drawing. (Attached)
Complete the Writing and Formatting Paragraphs activity. Submit your work as Ch10-F.

Assignment 8 - Chapters 6 & 11 Due 3.21.15

Read Chapter 6.
Scan the through the activities. If there is a concept that you are not familiar with, then work through the activity as a self-study.

Read Chapter 11.
Open the Ch11-A drawing. (Attached)
Complete the Styling Dimensions activity. Submit your work as Ch11-B.

Open the Ch11-B drawing. (Attached)
Complete the Using Inquiry Commands activity. No submission necessary.

Open the Ch11-B drawing. (Attached)
Complete the Adding Dimension Objects activity. Submit your work as Ch11-C.

Open the Ch11-C drawing. (Attached)

Complete the Adding and Styling Multileaders activity. Submit your work as Ch10-D.
Open the Ch11-D drawing. (Attached)

Complete the Editing Dimensions activity. Submit your work as Ch11-E.

Assignment 9 - Chapters 7 & 12 Due 3.28.15

Ch12-C.dwg (35.808 KB)
Ch12-B.dwg (74.401 KB)
Ch12-D.dwg (36.992 KB)
Ch12-A.dwg (32.31 KB)

Read Chapter 7.
Scan the through the activities. If there is a concept that you are not familiar with, then work through the activity as a self-study.

Read Chapter 12.

Open the Ch12-A drawing. (Attached)

Complete the Working with Geometric Constraints activity. Submit your work as Ch12-B.

Open the Ch12-B drawing. (Attached)

Complete the Applying Dimensional Constraints activity. Submit your work as Ch12-C.

Open the Ch12-C drawing. (Attached)

Complete the Constraining Objects activity. Submit your work as Ch12-D.

Open the Ch12-D drawing. (Attached)

Complete the Making Parametric Changes activity. Submit your work as Ch12-E.

Assignment 10 - Chapter 13 Due 4.4.15

Ch13-F.dwg (164.93 KB)
Ch13-B.dwg (153.806 KB)
Ch13-G.dwg (162.617 KB)
Ch13-H.dwg (164.397 KB)
Ch13-C.dwg (155.771 KB)
Ch13-D.dwg (159.052 KB)
Ch13-A.dwg (154.524 KB)
Ch13-E.dwg (159.493 KB)

Read Chapter 13.
Open the Ch13-A drawing. (Attached)

Complete the Creating Annotative Styles activity. Submit your work as Ch13-B.

Open the Ch10-B drawing. (Attached)

Complete the Working with Annotative Dimensions activity. Submit your work as Ch13-C.

Open the Ch13-C drawing. (Attached)

Complete the Creating Layouts activity. Submit your work as Ch13-D.
Open the Ch13-D drawing. (Attached)

Complete the Adjusting Floating Viewports activity. Submit your work as Ch13-E.
Open the Ch13-E drawing. (Attached)

Complete the Working on Layout2 activity. Submit your work as Ch13-F.

Open the Ch13-F drawing. (Attached)
Complete the Overriding Layer Properties in Layout Viewports activity. Submit your work as Ch13-G.

Open the Ch13-G drawing. (Attached)
Complete the Drawing on Layouts activity. Submit your work as Ch13-H.

Assignment 11 - Chapter 15 Due 4.11.15

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Read Chapter 15.
Open the Ch15-A drawing. (Attached)

Complete the Defining Attributes and Blocks activity. Submit your work as Ch15-B.

Open the Ch15-B drawing. (Attached)

Complete the Inserting Attributed Blocks activity. Submit your work as Ch15-C.

Open the Ch15-C drawing. (Attached)

Complete the Editing Table Styles and Creating Tables activity. Submit your work as Ch15-D.

Open the Ch15-D drawing. (Attached)

Complete the Using Fields in Table Cells activity. Submit your work as Ch15-E.

Open the Ch15-E drawing. (Attached)

Complete the Editing Table Data activity. Submit your work as Ch15-F.

Assignment 12 - Chapter 16 B-D Due 4.18.15 !6-E-G Due 4.25.15

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Read Chapter 16.
Open the Ch16-A drawing. (Attached)

Complete the Using Visual Styles activity. Submit your work as Ch16-B.

Open the Ch16-B drawing. (Attached)

Complete the Working with Tiled Viewports activity. Submit your work as Ch16-C.

Open the Ch16-C drawing. (Attached)
Complete the Navigating with the ViewCube activity. No submission necessary.

Open the Ch16-D drawing. (Attached)

Complete the Orbiting in 3D activity. No submission necessary.

Open the Ch16-E drawing. (Attached)

Complete the Using Cameras activity. Submit your work as Ch16-F.

Open the Ch16-F drawing. (Attached)

Complete the Navigating with SteeringWheels activity. No submission necessary.

Open the Ch16-G drawing. (Attached)

Complete the Saving Views activity. No submission necessary.

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⚠️ Chapter 18 & Final Exam Due 5.9.15
Read Chapter 17 & 18.
Complete the activities on your own. No submission is necessary.

Submit Page 368 - Additional Exercise. Change the materials and lights and render the camera 2 view on your own.

This assignment will serve as your final exam. Title the assignment Final Exam.