Instructor: Rose DeNunzio

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Hours Available: Tues & Thurs: 10:00am 8:00pm

Course Description:
This course focuses on computer-assisted applications for integrating 3D engineering graphics as well as surfaces in order to accomplish a variety of manufacturing objectives. Emphasis on the conversion of a working drawing using computer aided design/computer aided manufacturing (CAD/CAM) software and related input and output devices to translate into machine code.

Textbooks and Other Course Materials:
- MASTERCAM MILL LEVEL 3, Training DVD (accompanies the text)
- MASTERCAM X7 LEARNING EDITION, Software CD (accompanies the text)
Publisher: In-House Solutions

Course Objectives:
Students will attain proficiency in: using the graphical user interface and dashboard; navigating the through various screens; using the status bar to set attributes; setting the grid; and utilizing the many 3D geometric functions located in the drop down menus of MasterCAM X7 software. Students will then master many basic forms of wireframe and solid 3D geometry creation as are needed to produce tool path for the purpose of CNC machining. Through a series of menus, they will then assign the many physical attributes required by said tool path, e.g. part origin, cutter specifications, stock details, speed and feed, etc. in order to perform a live machining sequence as the result of the code being generated through this process.
Course Outline:

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<tr>
<th>WEEK</th>
<th>WEEKLY ACTIVITY</th>
<th>DUE DATE</th>
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<td>1-2</td>
<td>Tutorial #1: Watch tutorial videos on Training CD&lt;br&gt;Submit assignment precisely as per the text, pg. 15-87</td>
<td>1/20/15 1/27/15</td>
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<td>2-3</td>
<td>Review Exercise #1: Watch exercise video on eCampus&lt;br&gt;Submit assignment precisely as per the text, pg. 90-94</td>
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<td>3-4</td>
<td>Tutorial #2: Watch tutorial videos on Training CD&lt;br&gt;Submit assignment precisely as per the text, pg. 97-169</td>
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<td>4-5</td>
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<td>5-6</td>
<td>Tutorial #3: Watch tutorial videos on Training CD&lt;br&gt;Submit assignment precisely as per the text, pg. 179-283</td>
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<td>6-7</td>
<td>Review Exercise #3: Watch exercise video on eCampus&lt;br&gt;Submit assignment precisely as per the text, pg. 286-292</td>
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<td>7</td>
<td>Tutorial #4: Watch tutorial videos on Training CD</td>
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<td>8</td>
<td><strong>SPRING BREAK</strong></td>
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<td>Submit assignment precisely as per the text, pg. 295-450</td>
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<td>9-10</td>
<td>Review Exercise #4: Watch exercise video on eCampus&lt;br&gt;Submit assignment precisely as per the text, pg. 453-458</td>
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<td>10-11</td>
<td>Tutorial #5: Watch tutorial videos on Training CD&lt;br&gt;Submit assignment precisely as per the text, pg. 461-627</td>
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<td>11-12</td>
<td>Review Exercise #5: Watch exercise video on eCampus&lt;br&gt;Submit assignment precisely as per the text, pg. 630-640</td>
<td>4/1/15 4/7/15</td>
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<td>12-13</td>
<td>Tutorial #6: Watch tutorial videos on Training CD&lt;br&gt;Submit assignment precisely as per the text, pg. 643-728</td>
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<td>13-14</td>
<td>Review Exercise #6: Watch exercise video on eCampus&lt;br&gt;Submit assignment precisely as per the text, pg. 732-739</td>
<td>4/15/15 4/21/15</td>
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<td>14-15</td>
<td>Tutorial #7: Watch tutorial videos on Training CD&lt;br&gt;Submit assignment precisely as per the text, pg. 743-863</td>
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<td>15-16</td>
<td>Review Exercise #7: Watch exercise video on eCampus&lt;br&gt;Submit assignment precisely as per the text, pg.866-876</td>
<td>4/29/15 5/5/15</td>
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<td>16-17</td>
<td>Catch up and late submissions</td>
<td>5/6/15-5/12/15</td>
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Evaluation Procedures:

All assignments will be graded using the standard 60 D; 70 C; 80 B; 90 A grade scale. Grades will be based on how successfully the assignments are completed as per the precise directions given in the text. Review exercises are meant to promote initiative in utilizing the skills acquired in the preceding tutorial(s), but may also require some level of creativity from time to time. A discussion board will be available for your questions and for all to share solutions for these assignments. In terms of working ahead of schedule, I will post subsequent assignments as soon as two students complete the preceding one. Projects must be submitted in the order they are assigned. You will be penalized 5% for each calendar day an assignment is late for up to 1 week, after which time the Project Submission Area in Blackboard will be closed and a zero will be permanently entered into the grade book.

Your final grade will be calculated as follows:
60% - Tutorial Student Projects in Text, (1-7)
40% - Tutorial Student Exercises in Text, (1-7) at the end of each tutorial

*Personal projects may be done for extra credit, only after all assigned work is completed.

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: http://www.dcccd.edu/netmail/home.html

ADA Statement:

If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office in C237, 972-860-8348 or go to http://www.eastfieldcollege.edu/SSI/DSO/index.html. My videos are closed captioned.
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/

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

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.
**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](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.

**Religious Holidays:**

Absences for observance of a religious holy day are excused. 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 a reasonable time after the absence.

**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.
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 16, 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://www1.dcccd.edu/coursedrops

*The instructor reserves the right to amend this syllabus as necessary