Course Title: ME121 Solids Modeling
Credit: 3
CRN: 10414
Term: Fall 2015
Meeting Place: BU 208
Meeting Times: T TH 2:00 - 3:15 p.m.
Prerequisites: none
Prerequisites by Topics: Geometry

Instructor: Dr. James Aflaki, Ph. D.
Office: N109
Office Hours:

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<td>MW</td>
<td>8:15 - 12:00</td>
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<td>T TH</td>
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Or by appointment

Office Phone: (901) 321-3559
Email: jaflaki@cbu.edu
Instructor's Educational Philosophy:

Education is helping students achieve their goals. Through education, students recognize and improve their learning skills and strengthen their capabilities to accomplish their life dreams.

Each student must be treated uniquely and a mutual respect must be developed between a student and an instructor. This is paramount in creating a suitable and pleasant learning environment.

Course Objectives:

1. Familiarize student with basic engineering drafting techniques
2. Introduce concepts of parametric design
3. Develop familiarity with parametric design software
4. Develop students’ ability to think and to design in three dimensions
5. Prepare students to communicate with professional draftsmen

Textbook: Roger Toogood, *Creo Parametric 3.0, Tutorial*
ISBN: 978-1-58503-948-7

Other Required Materials: None

Other References: *visualization, modeling, and graphics for Engineering Design*, Dennis K. Lieu, Sheryl Sorby, 2007 DELMAR Cengage Learning

Grading:

- Assignments 30%
- Three in-class Exam (@15% each 45%
- Group Project 25%

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Total 100%
Grading Scale:

- A  90-100
- B  80-89
- C  70-79
- D  60-69
- F  0-59

Assignments:

There will be design assignments on (roughly) a weekly basis.

Computers:

You can use computers in BU208, N234 and N237 to complete your assignments/projects.

Required Media:

You will need to prepare a blank CD-RW or Flash Drive to backup all homework assignments, exams, and project files. (BACKUP YOUR FILES AFTER EVERY CLASS OR PRACTICE.)

Never leave your files on classroom computers’ hard disk.

Exam and homework policies:

No make up exam will be given. In case you have to miss an exam, you must inform the instructor prior to the exam time. If it is determined that you have a legitimate excuse, the average grade of the other two exams will be your grade for the missing exam. Missing the final exam will result in receiving an F grade in the course.

Exam dates:

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<tr>
<th>Exam</th>
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<tr>
<td>Exam 1</td>
<td>September 24, 2015</td>
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<td>Exam 2</td>
<td>October 22, 2015</td>
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<td>Exam 3</td>
<td>December 3, 2015</td>
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Assignments are due a week after they have been assigned.

Each assignment is worth 10 points except end of the chapter’s project assignments which will be assembled in chapter 10 and is worth 50 points. After the due date, three points will be deducted from your assignment grade for each class period that it is passed due.

ATTENDANCE & CONDUCT: Students are expected to attend all classes and actively participate in class discussions.
For any reason, if a student misses a total of 9 (50-minute) classes or 6 (75-minute) classes, he/she will be given an F grade for the course.

Some of the topics presented in class may not be in your textbook. You are responsible for knowing these topics.

You must do your own work and research. Plagiarism or cheating in any form will not be tolerated and university policies will be strictly enforced.

Use of computers for anything other than the assigned class work is prohibited. You will be asked to leave class if this policy is violated.

Cheating and Plagiarism:

Students must always do their own work. Cheating of any kind will result in a reduction of student’s final grade by one letter grade. Cheating on an exam will result in an "F" grade for the course.

Computer Usage:

During class time, students can only use computers to do the assigned in-class or homework projects. Students cannot use the computer for any other purposes. This includes, but is not limited to checking email, browsing the Internet, playing games or printing lecture notes or using the CBU intranet, etc. A student who violates this policy will be asked to leave the classroom. A repeat of a similar situation will reduce the student’s final grade by a letter grade.

Electronic Devices:

All electronic devices must be turned off during the entire class period. The use of any electronic device such as programmable calculator, cellular phone, camera, pager, etc. is not allowed during the class, exam or quiz.

Bathroom Break:

Students cannot leave the classroom for using bathrooms during exams. If there is a justified medical case, student must discuss it with the instructor prior to exam.


**Academic Misconduct:**

Academic misconduct is a violation of the principles of the academic community and **will not** be tolerated at Christian Brothers University. The procedures outlined in Students’ Handbook under Academic Misconduct will be enforced.

Academic misconduct is any conduct which distracts from the teaching and learning process of faculty members and students. This includes, but is not limited to: inappropriate or abusive language, distracting or disorderly conduct, misuse of or damage to property, or conduct dangerous to others.

**American Disability Act:** It is the policy of Christian Brothers University to provide reasonable accommodations to qualified students with disabilities. Please see your instructor for proper procedures and arrangements.

**Updates to syllabus:**

The syllabus posted on the Web site will have any update or changes to the syllabus.

**Topics:**

1. Introduction to CREO software
2. Sketching sections in 2D
3. Creating simple objects
4. Revolved protrusions, mirrored copies
5. Exploring dependencies; rerouting
6. Datum planes and sketcher tools
7. Patterns and copies
8. Engineering drawings
9. Assembly fundamentals and operations
10. Sweeps and blends