Course Title: Statics
Date: January 15, 2010
Credit: 3 Semester Hours
Prerequisites: MATH 1920 and PHYS 2110 and PHYS 2111
Course Meetings: Lecture: MWF; 8:00 to 8:55 AM; ES 220
Instructor: Dr. Paul Palazolo; Office ES 108 A
email: ppalazol@memphis.edu
Office Hours: “Open Door” or by appointment
R. C. Hibbeler – Prentice Hall, 12th Edition
CourseWeb: www.ce.memphis.edu/2131

COURSE DESCRIPTION
Analysis of two and three dimensional force systems; centroids and moments of inertia; friction

COURSE OBJECTIVES
1. To develop fundamental skills in the solution of engineering problems through the solution of statically determinant mechanical systems
2. To develop the ability to solve statically determinant systems for missing forces and/or moments
3. To develop the ability to calculate the position of the centroid and moment of inertia of a shape
4. To develop the ability to integrate frictional forces into a statically determinant system and solve the system with these forces included
TOPIC LIST

1. Vector and scalar representation of forces
2. Particle equilibrium
3. Force systems
4. Rigid body equilibrium
5. Systems analysis
6. Centroids and Center of Gravity
7. Moments of Inertia
8. Friction

GRADING POLICY

The grade in the course is based on an overall summation of points from homework, regular tests, and a final exam. There are regular tests about every two weeks of the class. Short quizzes may be given at any time. Short quizzes have the same value as individual homework assignments.

The final grade for the class will be based on the following:

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<thead>
<tr>
<th>Grade</th>
<th>Composite Average</th>
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<tbody>
<tr>
<td>A</td>
<td>&gt;=90</td>
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<tr>
<td>A-</td>
<td>&gt;=87</td>
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<tr>
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<tr>
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<td>C+</td>
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<tr>
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<td>&gt;=67</td>
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<tr>
<td>D</td>
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All tests and the final exam will be comprehensive.
HOMEWORK

Homework problems will be assigned almost every class. The homework assignments are located on the web site that accompanies the course textbook. To access this site, you must have purchased an access code along with the textbook. If you have not, you will need to go to http://www.masteringengineering.com/

ABSENCES

If a student is absent from the class and he or she misses a homework, quiz, or test; and he or she wishes to make up that work, he or she must submit a written reason for the absence and provide supporting documentation. The submission will be evaluated by the instructor and may or may not be accepted. The final judgment will be up to the instructor. If the written submission is accepted, the work will be accepted late or a make-up test will be given. Human frailty is not an excusable absence.