ENGR 102 – Engineering Statics 3 Credits <u>COURSE POLICY- SPRING 2002</u>

Instructor – Karla Mossi, Ph.D. 001) Telephone: (804) 827 – 5275 002) Office: SoE Rm. 314 E-mail: kmmossi@vcu.edu Class Hours: 8:00-8:50a.m, Mon., Wed., Fri., Rm. 103 (Section TA Office Hours: TBA

Text: Engineering Mechanics STATICS, R. C. Hibbeler, 9th Edition, 2001, (includes Study Pack with a CD and workbook)

- 1. Homework. Assigned weekly on blackboard. Some collaboration among student in preparing the assignments is acceptable. However, the work should be primarily yours and written up individually. For homework up to one week late, the grade is reduced by one half. For homework more than one week late, the grade is zero. DO NOT FORGET TO STAPLE YOUR HOMEWORK.
- 2. Exams and Quizzes: There will be three exams, each 50 minutes in length. In addition, scheduled quizzes will be given during lecture sessions. Location, dates and times of the exams will be announced later.
- **3. Final Examination:** There will be a comprehensive final examination. Location, date and times to be announced later.

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| Attendance: | 5% | |
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| Homework : | 20% | |
| Quizzes: | 10% | |
| 3 Exams, 15% each: | 45% | |
| Final Exam: | 20% | |

- 5. Internet Site: There will be an internet site available for the course, <u>http://blackboard.vcu.edu</u>. To login use your e-mail username and password.
- 6. Academic Integrity: Following the recommendation of the administration, I include a statement on the topic of cheating and plagiarism. As is understood by the vast majority of students, our basic relationship is based on trust, and I've rarely seen problems in this area. The Virginia Commonwealth University Honor System defines Academic dishonesty and procedures in response. Please familiarize yourself with this document, (http://www.vcu.edu/safewb/rg/policies/rg7honor.html), and note that the penalties can be harsh.
- 7. Americans with Disabilities Act: Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 requires VCU to provide academic adjustments or accommodations for students with documented disabilities. Students seeking academic adjustments or accommodations must self-identify with the coordinator of Services for Students with Disabilities and must provide their instructors with an official memorandum from the Coordinator. Consult the on-line resources: http://www.vcu.edu/safweb/rg/rglaccess.html.

8. Rules for the class:

- No cell phones on during classes or exams, respect your classmates and your instructor.
- Let your instructor know in advance of any problems you may have with homework, quizzes, attendance, or exams.
- Keep all your graded homework, quizzes or exams. They will be a good reference in the future.
- On written work, always show all your work, even when guessing.

| | | TENTATIVE SCHEDULE | |
|-------|------------------|--|--------------|
| CLASS | DATE | TOPIC | READING |
| 1 | 14-Jan | Math Review Exam | |
| 2 | 16-Jan | Math Review Part I | |
| 3 | 18-Jan | Math Review Part II | |
| 4 | 21-Jan | Introduction | 1.1-1.6 |
| 5 | 23-Jan | Force Vectors | 2.1-2.3 |
| 6 | 25-Jan | Vector Operations | 2.4 |
| 7 | 2 8-Jan | Vector Operations, Position Vectors | 2.5-2.6 |
| 8 | 30-Jan | Dot Product | 2.7-2.8 |
| 9 | 1-Feb | Equilibrium, Free Body Diagram | 2.9 |
| 10 | 4-Feb | Force Systems, 3-D F sys | 3.1-3.3 |
| 11 | 6-Feb | Moment, Cross Product | 3.4 |
| 12 | 8-Feb | Moment of a Force | 4.1-4.2 |
| 13 | 11-Feb | Cross Product, Vector Formulation | 4.3 |
| 14 | 13-Feb | EXAM I | Chapters 1-3 |
| 15 | 15-Feb | Principle of Moments | 4.4, 4.5 |
| 16 | 18-Feb | Moments, Couples | 4.6 |
| 17 | 20-Feb | Equivalent System | 4.7,4.8 |
| 18 | 22-Feb | Distributed Loading | 4.9, 4.10 |
| 19 | 25-Feb | Rigid-Body Equilibrium -Free Body Diagrams | 5.1-5.2 |
| 20 | 27-Feb | Equations of Equilibrium | 5.3 |
| 21 | 1-Mar | 3D Equilibrium | 5.4 |
| 22 | 4-Mar | Free Body Diagrams | 5.5, 5.6 |
| 23 | 6-Mar | Constrains for a Rigid Body | 5.7 |
| 24 | 8-Mar | Review | |
| | 9-17 Mar | SPRING BREAK | |
| 25 | 18-Mar | REVIEW-Questions | |
| 26 | 20-Mar | EXAM II | Chapters 4-5 |
| 27 | 22-Mar | Trusses | 6.1-6.2 |
| 28 | 25-Mar | Trusses – Method of Joints | 6.2, 6.3 |
| 29 | 27-Mar | Trusses - Method of Sections | 6.4 |
| 30 | 29-Mar | Space Trusses | 6.5 |
| 31 | 1-Apr | Frames and Machines | 6.6 |
| 32 | 3-Apr | Frames and Machines | 6.6 |
| 33 | 5-Apr | Friction | 8.1-8.2 |
| 34 | 8-Apr | Friction | 8.2 |
| 35 | 10-Apr | Wedges | 8.3-8.5 |
| 55 | 10- <i>1</i> 1pi | wedges | 0.5-0.5 |

TENTATIVE SCHEDULE

| CLASS | DATE | TOPIC | READING |
|-------|----------|-----------------------|------------|
| 36 | 12-Apr | Center of Gravity | 9.1-9.2 |
| 37 | 15-Apr | Review/Questions | |
| 38 | 17-Apr | EXAM III | Ch 5 and 6 |
| 39 | 19-Apr | Composite Bodies | 9.2-9.3 |
| 40 | 22-Apr | Composite Bodies | 9.3 |
| 41 | 24-Apr | Moment of Inertia | 10.1-10.2 |
| 42 | 26-Apr | Parallel Axis Theorem | 10.3-10.5 |
| 43 | 29-Apr | REVIEW | |
| 44 | 1-May | REVIEW | |
| 45 | 3-May | REVIEW | |
| | 6-10 May | FINAL EXAM | |

Blackboard

This software is a tool that enables you to check announcements, homework, and your progress in class. Many other features are available.

To access this website go to: <u>http://blackboard.vcu.edu/</u>

To login: use your e-mail and your e-mail password Explore and click away

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|------------------------------------|--|--|
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