CE 2200, Engineering Mechanics – Statics
Course Syllabus - Fall 2015

T-Th, Section G, 9:30 – 10:45 AM, Fulton 227
T-Th, Section H, 11:00 – 12:15 AM, Butler-Carlton 121

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Web Page: http://www.mst.edu/~ide50-3
Office Hours: Mon, Wed 9:30 – 10:30 AM; Thurs 12:30 – 3:00 PM. I will likely be available other times, please call, text or email for an appointment. You have my email and you have my cell phone number. Use them.


Course Objectives: At the end of this course, you should be able to:
1. Describe the defining characteristics of a vector and express a force or moment as a vector. Write and solve equilibrium equations for a particle. Replace a system of forces and moments with an equivalent representation.
2. Describe the differences between rigid body and particle static analysis. Derive and solve the equilibrium equations for a rigid body. Set up and solve truss problems as well as machine and frame problems.
3. Describe the relationship between shear forces and bending moments and determine the shear force and bending moment at any point within a rigid body. Write and solve the equilibrium equation problems involving friction. Determine the centroid of a rigid body and composite bodies by integration.
4. Describe the general approach to solving distributed loading problems and apply it to fluid pressure problems. Determine the moments of inertia for a rigid body by integration and composite bodies and explain the significance of principal moments of inertia.

Prerequisite Requirements: PHYS 23 (1135) or 21 (1111) and preceded or accompanied by Math 2222 (Calc 3).

Homework / Quizzes:
1. Make homework a priority. This will greatly improve your understanding of the material. Grades in this course directly correlate to students’ homework effort.
2. When you register under your section online you will need to enter the access code provided with your purchase from Pearson and the following course ID: CE2200FS2015
3. Several problems from the textbook are assigned each class period (please refer to your syllabus). Textbook problems will be submitted and graded online through Pearson’s Mastering Engineering platform (http://www.masteringengineering.com) Homework must be submitted by the due date in order to receive credit. Late homework cannot be made up.
4. Assigned homework problems should be worked by hand on 8.5” x 11” paper with a clean edge and may be collected. PLEASE WORK PROBLEMS NEATLY AND BOX ANSWERS. POINTS WILL BE DEDUCTED FOR MESSY WORK.
5. Mec Movies homework are also assigned to supplement the textbook homework problems. These will be due the class period after they are assigned and will be collected at the beginning of the hour they are due. A paper copy of the assignment must be submitted for collection. Emailed screenshots will not be accepted.
6. Quizzes may be given at any time throughout the semester and may be unannounced. Missed quizzes may not be made up.
Exams: Four common exams will be given as outlined in the syllabus. Note the following:
1. All exams are cumulative and may consist of multiple choice and short answer questions along with problems similar to those assigned as homework and discussed in class.
2. A formula sheet will be provided with the exams and the final exam.
3. Communication devices must be turned off and put away, and hats must be turned backwards.
4. Backpacks and all other material not explicitly needed for the exam will be placed at the back or front of the classroom or along the aisles next to the walls.
5. Make-up exams are only given for off-campus university-sponsored activities (memo from your team coach or advisor is required) or for a certified medical excuse (verification must be provided). Job interviews, personal trips, etc. are not excusable, so plan accordingly.
6. An exam assigned zero credit without a verified excuse from the instructor may not be replaced by the final (see below).

Final: A common final exam will be given at the end of the semester. The final exam:
1. Will be cumulative and may consist of multiple choice and short answer questions along with problems similar to those assigned as homework and discussed in class. The final exam will be similar in format to the regular exams.
2. Can replace your lowest exam grade. If the final exam is your lowest score, it may not be replaced by a previous exam (See exception noted above under Exams).

Grades: Your semester grade will be calculated as follows:

- In class quizzes and paper assignments................. 7.5 %
- Mastering Engineering assignments..................... 7.5 %
- Four Unit Exams............................................. 60 %
- Final Exam...................................................... 25 %

Letter grades will follow the scale 100-90% A, 89-80% B, 79-70% C, 69-60% D, <60% F. Keep in mind that grades are strictly performance based. Grades are not given or subjective. They are earned and based on an objective assessment of the work you submit. Any exam grading issue that is not resolved on the day the exam is handed back must be documented through an email within 24 hours of reviewing the exam.

Academic Dishonesty and FERPA waiver: [http://registrar.mst.edu/academicregs/](http://registrar.mst.edu/academicregs/)
A form concerning academic dishonesty and a limited waiver of FERPA is attached to the end of this syllabus and must be signed and returned within the first six class sessions in order to maintain enrollment in this course.

Accommodating Special Needs: If you have a documented disability and anticipate needing accommodations in this course you are strongly encouraged to meet with the instructor early in the semester. You will need to request that the Disability Support Services ([dss.mst.edu](http://dss.mst.edu)) staff send a letter verifying your disability and specifying the accommodations needed.

FLEE: All students should familiarize themselves with the campus classroom egress maps ([http://designconstruction.mst.edu/floorplan](http://designconstruction.mst.edu/floorplan)).

Attendance: Due to the nature of the course, your regular attendance is expected. Excessive absences will result in your being dropped from the course.

Cell Phones: Switch to silent. If someone’s phone rings, ignore it. If you are texting, you are wasting your time in class and as long as you bother only the instructor, it may, or may not be ignored.

Final Note: If you have problems with this course that cannot be resolved by the instructor, feel free to consult with the department chairman, Dr. William Schonberg (BCH 211).
FERPA WAIVER, SYLLABUS ACKNOWLEDGEMENT AND ACADEMIC DISHONESTY

Printed Name: ___________________________________________________

FERPA Waiver: I hereby waive FERPA with respect to returning homework, exams, and applicable coursework en masse. Course grades are not included in this waiver. I understand that any change to this waiver must be made in writing to the course professor.

_________ (initial)

Syllabus Acknowledgement. Signing below signifies that you have received a syllabus and have read and you understand the listed course requirements including Exam dates and times.

_________ (initial)

Student Academic Dishonesty. Academic dishonesty will not be tolerated and will be handled according to the Student Academic Regulations (registrar.mst.edu/academicregs). Any individual found committing acts of cheating, sabotage, or plagiarism will receive an automatic score of zero on the exam or assignment and will be reported to the Vice Provost for Undergraduate Affairs for appropriate disciplinary action. Further occurrences may result in more severe penalties. An assignment or exam assigned a zero due to academic dishonesty may not be dropped.

Academic honesty is essential for the intellectual life of the University and for your continued academic professional development and growth. As your instructor, I have a very high standard of academic honesty in all of your work in this class. You, as a student in this class, have an obligation to adhere to that high standard. Should a case of academic dishonesty arise during the course of this semester, I shall make an academic judgment regarding your grade on the work in question and in this course overall if necessary. By enrolling in this course and receiving this syllabus, whether in printed or electronic format, you are certifying knowledge of Sections 200.010 (Standard of Conduct) and 200.020 (Rules of Procedures in Student Conduct Matters) in the Collected Rules and Regulations of the University of Missouri and are pledging to abide by them. If you have not yet read these Sections of the Collected Rules and Regulations, you are encouraged to do so. They may be found at the following URL address listed below.

http://www.umsystem.edu/ums/rules/collected_rules/programs/ch200

I hereby acknowledge that I have read and understand this FERPA waiver, Syllabus Acknowledgement and Student Academic Dishonesty form and Pertaining to CE 2200.

Signed: ___________________________ Date: ______________

(you must sign and return within six class sessions to stay in this course)