

Kellogg Community College

Department of Engineering Technology

INSTRUCTOR: Pat Kopf Telephone: 965-3931 ext. 2266
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COURSE TITLE: ENTE 220, Static's and Strength of Materials

COURSE DESCRIPTION: This course is a study of the force systems which act on an object at rest and the behavior of materials when placed under loads and restraints. Topics will include calculating centers of gravity and moments of inertia; predicting the effect of forces applied in tension, compression, shear, and torsion on riveted and welded joints; and developing bending moment diagrams for beams and columns.

PREREQUISITE: Technical Mathematics 118/119 or departmental approval.

LENGTH: One semester, 64 hours of instruction, 3 hours credit.

TEXTBOOK(S): Static's and Strength of Materials, 5th edition, H. W. Morrow

ATTENDANCE POLICY: Regular attendance and participation are necessary for successful completion of the course. The instructor will take attendance every day. A student who does not attend regularly will experience considerable difficulty. While attendance will not be a major consideration in the determination of the final course grade, if your grade is border line your attendance will help.

If a student is absent from a class session, it is the student's responsibility to become fully familiar with any information presented during that session. The student is responsible for all assignments made during their absence.

If a student finds themselves in a situation where they will miss one or several consecutive classes, please let me know beforehand or call my office phone and leave a message. An EXCESSIVE ABSENCE form will be submitted after:

1. Three consecutive absences from class.
2. Four absences from class during the semester.

An ADMINISTRATIVE WITHDRAWAL will be initiated when the instructor believes it is no longer possible for the student to pass the course.

DERIVATION OF STUDENT GRADE:

Grades are based on homework/lab work, quizzes and examinations. Class participation and attendance will affect grades in marginal situations.

Percentage	Grade	Percentage	Grade
93% to 100%	A	77% to 79.9%	C+
90% to 92.9%	A-	73% to 76.9%	C
87% to 89.9%	B+	70% to 72.9%	C-
83% to 86.9%	B	67% to 69.9%	D+
80% to 82.9%	B-	63% to 66.9%	D
		60% to 62.9%	D-

There will be 5-6 unit tests throughout the semester. Each test may cover more than one chapter. Each test will be worth 100 points.

Laboratory assignments will be awarded points that will vary from lab to lab. They will range from 20 to 30 points. There will probably be 3 or 4 lab projects throughout the semester. They are an important aspect in the learning process. If a student knows that they must miss a class period during which a lab exercise is being completed, please contact the instructor for makeup opportunities.

Homework may be collected from time to time for a grade. If you would like me to look at your homework and check it periodically, stop in during office hours.

You will participate in a bridge building competition with your classmates just after spring break. You will build a spaghetti bridge from a box of spaghetti noodles that must support 2 kg of load for a period of 5 minutes. This assignment will be worth 50 points towards your grade. Those bridges surviving the loading period for five minutes will be eligible for up to 10 bonus points. Bonus points will be awarded based on the mass of the bridge (the lightest bridge being awarded the most bonus points).

The final exam will be worth 150 points towards your final grade.

Tests will be taken at the scheduled time and date unless other arrangements are made with the instructor.

Note on late quizzes and tests:

1. Quizzes: Make up will be permitted only for legitimate absences. It is your responsibility to ask if there was a quiz during your absence and to schedule a make up with the instructor. Make up quizzes must be completed within one week of your return.
2. Tests: It is assumed that when a test is given during a class period that all students will be ready to take the test at that time. If you are unable to attend class due to unforeseen circumstances you must make up the test in the testing center (Lane Thomas bldg., third floor) prior to the next class period. When you have missed a test, your test is put in the testing center immediately after class. Students who have not made up the test prior to the next class period will receive their grade less 15-percentage points for each day (not class day) that they continue to postpone taking the test in the test center. Students who show a repeated pattern of missing exams in class will lose the privilege of using the testing center and will receive zeros if they are absent when the test is given.

Note: Some circumstances, such as extended illness, death in the family, will make this policy void, but they need to be discussed with the instructor.

ACADEMIC HONESTY: Anyone found cheating on a quiz or test will be given a zero for that item they cheated on and a warning will be issued. If anyone is detected cheating a second time, they will be asked to leave the course with no credit.

OFFICE HOURS: I am more than happy to make time for you if you have shown a true desire to succeed in this class. The only way I can help you do your best is if I know you are having troubles, so **please** feel free to ask questions or come in to see me. My office hours are posted on my door and can be recorded below. If these times will not work for you, please ask me to set up an appointment with you. I am more than happy to accommodate your schedule where possible.

Monday

Tuesday

Wednesday

Thursday

Friday

ADA STATEMENT: Kellogg Community College does not discriminate in the admission or treatment of students on the basis of disability. KCC is committed to compliance with the Americans With Disabilities Act and Section 504 of the Rehabilitation Act.

DISCLAIMER: Information contained in this syllabus was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. However, this syllabus should not be considered a contract between Kellogg Community College and any student, nor between the instructor and any student. The instructor reserves the right, acting within the policies and procedures of Kellogg Community College, to make changes in course content or instructional techniques without notice or obligations.