

Machine Design
MECH 3230
Department of Mechanical Engineering
Auburn University
Fall 2010 Ross 136 TR 11:00 – 12:15

Instructor: Professor David G. Beale, Ph.D., PE, Office: 354 Ross, 844-3336,
dbeale@eng.auburn.edu
Office Hours: T & R, 1:45 – 3:00
TA: Rujian Fu
Text: Juvinall, R.C., Marshek, K.M., Fundamentals of Machine Component
Design, 4th Edition
Homework: Homework due dates will be stated in class. Solutions will be posted on
the website <http://www.eng.auburn.edu/~dbeale/MECH3230/>. Some
homework assignments will be collected. Short (15 minute) quizzes may
also be given at the end of a chapter. Late homework will not be accepted,
but will be excused with an approved excuse. Bring book to class!
Prerequisite Exam: An exam will be given on the second day class which covers all material
from courses previous to MECH 3230 (including physics and math).

Grading:		Grading Scale:	
Homework/Quizzes	20%	90% to 100%	A
Prereq. Exam	5%	80% to 90%	B
Exam #1	20%	70% to 80%	C
Exam #2	20%	60% to 70%	D
Final (12/7, 12-2:30)	35%	Less than 60%	F

Exams are open book but not open notes.

Prerequisites: MECH 2210, ME 3130, ME 3220

Description: Design of systems containing a variety of mechanical elements.

Class Objectives: To learn how to analyze, design and implement various individual mechanical components into the design of mechanical systems and machines. To learn about methods and components of design which result in mechanical systems with long operating lives and high reliability. To be able to design with basic mechanical components, including shafts, fasteners, springs, bearings and gears.

Make-up Policy: Exams may be made up only with an excused absence. If you miss an exam you must have a written excuse (such as a doctor's note). Please inform me as soon as you find out about an excused absence.

Cheating: All portions of the **Auburn University Student Academic Honesty Code**, as found in the *Tiger Cub* and defined in the SGA Code of Laws, Title XII, will apply in this

class. Cheating or academic misconduct on Exams will not be tolerated and will be reported to the Academic Honesty Committee. This includes sharing answers and information during exams.

Students who need accommodations are asked to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by E-mail. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844-2096 (V/TT).