

ME 1028 MECHANICAL DESIGN 1

Spring 2005, MWF 1 – 1:50 pm (720 BEH)

<http://www.pitt.edu/~hshst7/Courses.htm>

Instructor:

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Office hours: Wednesdays and Fridays 10:00 - 11:30 am and by appointment

Teaching Assistant:

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Office hours: Tuesdays and Thursdays 10 am – noon

Textbook:

Mechanical Design—An Integrated Approach, 1st edition, by Ansel C. Ugural, McGraw-Hill

Homework:

Homework assignments will be given and graded periodically.

Homework is due at the start of class and no late homework will be accepted.

Team Project:

Students will work in teams to complete a design project. The output will include a presentation, a written report and a poster describing the results of the project. Further details will be provided.

Attendance Policy: Attendance of classes is mandatory. If a student has a valid excuse for missing a class, they must inform the instructor beforehand.

Cellular phones must be turned OFF during class. Repeated disruptions will count as absences.

Prerequisites:

ENGR 0145

Exams:

Two exams and a Final.

The final examination will be on Friday, April 29, from 12 – 1:50 pm at room 720 BEH

Note:

There will be no class on Friday, January 14, 2005

Overview:

The specific topics of lectures are subject to change.

Topics	Number of lectures
Introduction	4
Material	3
Stresses and strains	8
Deflection	8
Energy method	4
Buckling	4
Failure theory	4
Fatigue	2
Project presentation	3
Total classes	40

Grading:

Semester grades will be computed as follows:

Homework	20%
Design projects	20%
Exam 1	15%
Exam 2	15%
Final	30%
Total	100%

ACADEMIC HONESTY

Academic honesty means performing all academic work without plagiarism, cheating, lying, tampering, stealing, receiving unauthorized or illegitimate assistance from any other person, or using any source of information that is not common knowledge.

DEPARTMENTAL GRADING POLICY REGARDING COMMUNICATION SKILLS

Thirty percent of the grade on all written assignments (reports / papers) will be based on quality of communication. Spelling, grammar, punctuation, and clarity of writing are evidence of written communication quality.