THE UNIVERSITY OF TEXAS AT AUSTIN

EMS306 - STATICS
Summer 2004

SYLLABUS

UNIQUE NUMBER: 75822

INSTRUCTOR: Dr. Leszek Demkowicz
ACES 6.326, 471-4199, leszek@ices.utexas.edu

TIME: MTWThF 1:00 - 2:30 p.m.

PLACE: WRW 102

TEACHING ASSISTANT: Heriberto Gonzalez WRW 214, 471-7030, herigonz@mail.utexas.edu
Help Session: Mon, ENS 115, 7:00-9:00 p.m.
Office hours: TTh noon-1:00 p.m.

TEXT: A. Bedford and W. Fowler, *Engineering Mechanics: Statics*, Third Edition, Pearson Prentice Hall, 2002.

CLASS OUTLINE SCHEDULE:

Date	Topic	Reading
Mon, Jul 12	Units, Scalar and vectors	1-57
Tue, Jul 13	Dot and cross products	58-83
Wed, Jul 14	Concurrent force systems	84-125
Thu, Jul 15	Moments, reduction at a point	126-201
Fri, Jul 16	Reduction to the simplest form	
Mon, Jul 19		
Tue, Jul 20	Two-dimensional applications	202-259
Wed, Jul 21		
Thu, Jul 22	Three-dimensional applications	
Fri, Jul 23		

Mon, Jul 26	Unstable and statically undetermined systems	
Tue, Jul 27	Trusses	262-283
Wed, Jul 28		
Thu, Jul 29	Frames and Machines	284-315
Fri, Jul 30		
Mon, Aug 02	Centroids and Center of Mass	318-373
Tue, Aug 03		
Wed, Aug 04	Moments of inertia	374-409
Thu, Aug 05		
Fri, Aug 06	Friction	422-475
Mon, Aug 09		
Tue, Aug 10	Internal forces diagrams	476-527
Wed, Aug 11		
Thu, Aug 12		
Fri, Aug 13	Review	

FINAL GRADE: Is based upon the final score.

Final score range	grade
85 - 100	A+
75 - 85	A
65 - 75	B
55 - 65	C
45 - 55	D
00 - 45	F

The final score is a weighted average of the tests score, three mid-term exams and the final exam, with the following weights:

Tests	- 25 %
Exams	- 25 % each
Final	- 25 %

HOMEWORK AND TEST POLICY: Homework (an average of four problems per class) will be given during each class. Each class will begin with a 10-15 minutes test on one of the problems assigned on the previous day. Solutions to the assigned problems will be available on the Web, immediately after the test. Two lowest scores will be disregarded when computing the final test average.

EXAMINATIONS: There will be two (closed book) exams held during evening hours, according to the following schedule.

Exam 1 (through chapter 4) Mon, Jul 26, 6:00 - 8:00 p.m.
Exam 2 (through chapter 8) Mon, Aug 9, 6:00 - 8:00 p.m.

A comprehensive *final exam* will be given during the official scheduled time.

ATTENDANCE: Regular attendance is expected.

OFFICE HOURS:

MTWThF 5:00-5:30 ACES 6.326