King Fahd University of Petroleum & Minerals
DEPARTMENT OF CIVIL ENGINEERING

CE 201 STATICS

Second Semester 2007-08 (072)

Text: Engineering Mechanics/Statics - R.C. Hibbeler (**11th Edition**)
Prerequisite: PHYS 101

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Date		Subject	Section
Feb.	16	Introduction	Ch 1
	18	Scalars & Vectors	2.1-2.2
	20	Vector Addition of Forces	2.3
	23	Addition of Coplanar Forces	2.4
	25	Cartesian Vectors	2.5-2.6
	27	Position Vectors, Force along a Line	2.7-2.8
Mar.	01	Dot Product	2.9
	03	Equilibrium of a Particle & Free-Body Diagrams	3.1-3.2
	05	Coplanar Force Systems	3.3
	08	Three-Dimensional Force Systems	3.4
	10	Three-Dimensional Force Systems	3.4(cont.)
	12	Cross Product, Moment of a force	4.1-4.2
	15	Trans. of a Force & Principle of Moments	4.3-4.4
	17	Moment about an axis	4.5
	19	Moment of a couple	4.6
	22	Force and Couple Systems	4.7-4.8
	24	**EXAM # 1**	
	26	Distributed Loading	4.10
	29	Equilibrium of a Rigid Body	5.1-5.2
	31	Equilibrium of a Rigid Body (2-D)	5.3
Apr.	02	Equilibrium of a Rigid Body (2-D), Two and Three-force Members	5.3 (cont.), 5.4
	05	Equilibrium of a Rigid Body (3-D)	5.5-5.6
	07	Equilibrium of a Rigid Body (3-D)	5.6 (cont.)
	09	Simple Trusses; the Method of Joints	6.1, 6.2
		Midterm Vacation (April 12-16, 2008)	

Date		Subject	Section
Apr.	19	The Method of Joints; Zero Force Members	6.2 (cont.), 6.3
	21	The Method of Sections	6.4
	23	Frames and Machines	6.6
	26	Frames and Machines	6.6 (cont.)
	28	Frames and Machines	6.6 (cont.)
	30	Internal Forces (2-D)	7.1
May	03	Internal Forces (3-D)	7.1 (cont.)
	05	Shear and Moment Equations & Diagrams	7.2
	07	Shear and Moment Equations & Diagrams	7.2 (cont.)
	10	Shear and Moment Equations & Diagrams	7.2 (cont.)
	12	**EXAM # 2**	
	14	Dry Friction	8.1
	17	Problems Involving Dry Friction	8.2
	19	Problems Involving Dry Friction	8.2 (cont.)
	21	Problems Involving Dry Friction	8.2 (cont.)
	24	Center of Gravity & Centroid (No Applications)	9.1-9.2
	26	C. G. for Composite Bodies	9.3
	28	C. G. for Composite Bodies	9.3 (cont.)
	31	Moment of Inertia for Areas, Parallel-Axis Theorem	10.1-10.2
June	02	Moment of Inertia for Composite Areas	10.5
	04	Moment of Inertia for Composite Areas	10.5 (cont.)

Grade Distribution:

Homework and attendance	= 10%
Quizzes (in class)	= 5%
First Major Exam	= 25%
Second Major Exam	= 25%
Final Exam	= 35%
Total	**100%**

Note:

- *Homework* will be assigned in *every week*.
- The University regulations regarding excessive absences will be strictly adhered to in this course. (9 unexcused absences $\rightarrow$ DN grade).
- Each assignment **MUST** be submitted according to the Standard Format.
- Each assignment **MUST** have a cover page.
- Exam dates will be announced later.