

GRANDE PRAIRIE REGIONAL COLLEGE

DEPARTMENT OF SCIENCE

EG 231 ENGINEERING MECHANICS II 4(3-2) UT(4) w/ 9/1/92

Lectures: M W F 11:00 - 11:50 a.m.  
Laboratory: M 3:00 - 4:50 p.m.

INSTRUCTOR: Dr. R. Hunt

OFFICE: D314

PHONE: 539 - 2008/532-1338

TEXT: Hibbeler, Engineering Mechanics,  
Statics and Dynamics.

COURSE CONTENT:

Centroids and Centres of Gravity; Forces in Beams and Cables: Force and Moment Diagrams; Distributed Forces; Second Moments of Area; and Kinematics: Rectilinear and Curvilinear Motion of Particles; Kinetics of Particles; and Energy and Momentum Methods.

PREREQUISITE: EG 230 and MA 212.

COURSE OUTLINE:

Statics

Chapter 7 Force, Shear, and Moment Diagrams for Beams: Cables.

Chapter 9 Centre of Mass and Centroids; Fluid Statics.

Chapter 10 Moment of Inertia: Product of Inertia

Dynamics

Chapter 12 Kinematics of Particles

Chapter 13 Kinematics of Particles: Force and Acceleration

Chapter 14 Kinetics of Particles: Work and Energy

Chapter 15 Kinetics of Particles: Impulse and Momentum.

DISTRIBUTION OF MARKS FOR FINAL GRADE

Laboratory Assignments	10%
Problem Assignments	15%
Mid-Term Test	25%
Final Examination	50%

Midterm exam will be held in the lab period on February 21, 1992. Final exam will be scheduled by Registrar's Office (3 hours).

**EG 231 ENGINEERING MECHANICS II**

**PROBLEM ASSIGNMENT SETS**

Set #	Problems in Text				Due Date
1	7/18	7/34	7/43	7/73	Jan. 13
2	7/77	7/90	7/93	9/18	Jan. 22
3	9/28	9/52	9/55	9/78	Jan. 31
4	9/75	9/84	9/89	10/7	Feb. 7
5	10/21	10/30 I	10/55	10/63	Feb. 14
6	10/67*	10/82	10/87 I	12/6	Mar. 13
7	12/23	12/66	12/73	12/93	Mar. 23
8	12/106	12/121	12/143	13/23	Mar. 30
9	13/56	13/84	14/5	14/13	Apr. 6
10	14/63	15/29	15/59	15/62	Apr. 13

\* Use Mohr Circle

GRADING GUIDELINES:	Percent (Approx.)	Grade
	90 - 100%	9
	80 - 89%	8
	72 - 79%	7
	65 - 71%	6
	57 - 64%	5
	50 - 56%	4
	45 - 49%	3
	26 - 44%	2
	0 - 25%	1