



**DEPARTMENT OF SCIENCE**

**COURSE OUTLINE – FALL 2012**

**EG 1300 - ENGINEERING MECHANICS 4.0(3-0-2) UT (4)**

**INSTRUCTOR:** Dr. Robert (Bert) **PHONE:** 780-539-2008  
Hunt P. Eng. FEC  
**OFFICE:** C 414 **E-MAIL:** bhunt@gprc.ab.ca

**OFFICE HOURS:** MTWR noon- 2 pm

**COREQUISITE:** MA 1000

**REQUIRED TEXT/RESOURCE MATERIALS:** Hibbeler, R. C. - Engineering Mechanics:  
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**Statics and Dynamics.** 13th Edition. PrenticeHall/Pearson.

**CALENDAR DESCRIPTION:**

**Equilibrium of planar systems. Analysis of statically determinate trusses and frames. Friction. Shear forces and bending moments in beams. Centroids and centers of gravity. Moments of inertia.**

**CREDIT/CONTACT HOURS:** 3 hours lecture and 2 hours lab per week

**DELIVERY MODE(S):** The work is presented in the order covered in the text. All of Chapters 2, 5, 6, 7, 8 and 10 are not covered in this course. A detailed **Course Outline** is attached with the **Assignment Questions** for each **Chapter/Topic**.

**TRANSFERABILITY:** This is a University of Alberta Engineering Course. A Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions.

**GRADING CRITERIA:**

<b>GRANDE PRAIRIE REGIONAL COLLEGE</b>			
<b>GRADING CONVERSION CHART</b>			
<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</b>	<b>Designation</b>
<b>A<sup>+</sup></b>	<b>4.0</b>	<b>90 – 100</b>	<b>EXCELLENT</b>
<b>A</b>	<b>4.0</b>	<b>85 – 89</b>	
<b>A<sup>-</sup></b>	<b>3.7</b>	<b>80 – 84</b>	<b>FIRST CLASS STANDING</b>
<b>B<sup>+</sup></b>	<b>3.3</b>	<b>77 – 79</b>	
<b>B</b>	<b>3.0</b>	<b>73 – 76</b>	<b>GOOD</b>
<b>B<sup>-</sup></b>	<b>2.7</b>	<b>70 – 72</b>	
<b>C<sup>+</sup></b>	<b>2.3</b>	<b>67 – 69</b>	<b>SATISFACTORY</b>
<b>C</b>	<b>2.0</b>	<b>63 – 66</b>	
<b>C<sup>-</sup></b>	<b>1.7</b>	<b>60 – 62</b>	
<b>D<sup>+</sup></b>	<b>1.3</b>	<b>55 – 59</b>	<b>MINIMAL PASS</b>
<b>D</b>	<b>1.0</b>	<b>50 – 54</b>	
<b>F</b>	<b>0.0</b>	<b>0 – 49</b>	<b>FAIL</b>
<b>WF</b>	<b>0.0</b>	<b>0</b>	<b>FAIL, withdrawal after the deadline</b>

<b>EVALUATIONS:</b>	Assignments:	<b>10%</b>
	Laboratories:	<b>5%</b>
	Mid-Term Test	<b>35%</b>
	Final Examination	<b>50%</b>

## STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at [www.gprc.ab.ca/about/administration/policies/\\*\\*](http://www.gprc.ab.ca/about/administration/policies/**)

Note: All Academic and Administrative policies are available on the same page.

## COURSE SCHEDULE/TENTATIVE TIMELINE:

Lecture	T R	10:00 - 11:20 a.m.	J228
Laboratory	M	1:00 - 2:50 p.m.	J228
	M	3:00 - 4:50 p.m.	J228

## EXAMINATIONS:

Midterm examination 2 to 3:30 p.m. on Monday, October 22/12  
Material covered To end of week 6.

Final common examination: TBA by the Registrar's Office.

## NOTES:

All assignments must be neat and hand written on Engineering Paper; use pencil; staple all pages and use the assignment solution format provided. (Template attached.)

All work submitted, including assignments, must be your own. See "Code of Student Behaviour" in the University Calendar.