

**GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
EG 1000/1010 ORIENTATION TO ENGINEERING PROFESSION
2(2-0) UT (2)**

**M 2:30 - 3:20 p.m., J226
W 2:30 - 3:20 p.m., J226**

INSTRUCTOR: Dr. R. Hunt, P. Eng., FEC

OFFICE: C414

PHONE: 539-2008/532-1338 (GPRC/HOME)

COURSE CONTENT:

The branches and disciplines of Engineering; ethics, environmental stewardship, public and worker safety, creativity and decision-making in the design process; the Engineering method of problem solving; challenges to Engineering, and the professional responsibilities of the Engineer.

Proficiency with written assignments is demanded for full credit.

Aspects of the Alberta Occupational Health and Safety Act.

The course content will be supplemented by presentations from practicing Engineers drawn from various disciplines of Engineering. Some industrial tours as opportunities arise. ESS functions/activities count for credit.

FINAL GRADE: This is a pass/fail course. The final grade will be based on written submissions, attendance in the class and relevant activities.

Assignments: 100% - four assigned

Attendance: 80% - twenty six scheduled

In order to get credit in these courses, ALL assignments must be completed with a passing grade. At least 21/26 sessions must be attended. CR grade if 25/30 completions. IN if less.

EG 1000/1010 ASSIGNMENTS

1. (a) Group (by subject area or discipline) and briefly describe the courses to be taken in your “current” choice of branch for 2nd, 3rd, and 4th (or 5th?) year.

(b) List the jobs/projects/type of work normally done in that branch or discipline upon graduation.

(Due January 27, 2011)

2. Describe/define in one paragraph what the word “professional” means when used in the context of “Professional Engineer”.

(Due February 17, 2011)

3. Prepare a one page letter to:

The Personnel Director
The XYZ Engineering Company Ltd.
P.O. Box 77
GRANDE PRAIRIE, Alberta T8V 1C6

seeking summer employment for the period of May 1, 2011 to August 31, 2011.

The letter should briefly state why you are interested in working for the Company and refer to the pertinent skills and abilities which would be of interest to an employer. In closing ask for a job interview and provide the necessary information to contact you.

Assume that you have prepared a resume which you are enclosing with your (application) letter.

(Due March 10, 2011)

4. Prepare a résumé for yourself suitable for a “general” summer employment application in an Engineering-related field.

Be sure to include ALL relevant experience, even if at home, on the farm, etc. as related to the operation of machinery, construction, vehicles driven, licenses obtained, salary range, responsibilities assumed, references, telephone and address information, etc.

Chronological order or reverse order is preferred, plus vital statistics (where required by law - or otherwise).

(Due March 31, 2011)