DEPARTMENT OF SCIENCE

COURSE OUTLINE –WINTER 2018

EG1010 (A3) – ORIENTATION TO THE ENGINEERING PROFESSION II – 1 (1-0-0) UT

INSTRUCTOR:	Tanvir Sadiq, Ph.D., P.Eng., FEC	**PHONE:**	780-539-2865
OFFICE:	J209	**E-MAIL:**	TSadiq at gprc dot ab dot ca
OFFICE HOURS:	TBA or By Appointment		

CALENDAR DESCRIPTION:

Creativity and decision-making in engineering, team approach and engineering methods of solution, challenges to engineering, a review of the present status of engineering and its place in society are all covered in the course.

PREREQUISITE(S)/COREQUISITE:

Restricted to students in Engineering.

Must have passed all first term Engineering courses with a grade of at least C-

REQUIRED TEXT/RESOURCE MATERIALS:

There is no required text. Some notes and resource material may be provided.

DELIVERY MODE(S):

- Lectures
- The course content may be supplemented by (i) presentations from practicing Engineers drawn from various disciplines of Engineering, and (ii) relevant articles from the *PEG* and other journals.
- Some industrial tours as opportunities arise. ESS functions/activities count for credit.

COURSE OBJECTIVES:

- You will learn about the history, development and regulation of the Engineering profession
- You will be introduced to:
  - Engineering Profession
  - Branches of Engineering
  - Engineering Ethics
  - Provincial Engineering Act, Engineering Associations, and Self-Regulation.
- You will learn to communicate your ideas using various communication tools
- You will be introduced to Engineering analysis.

LEARNING OUTCOMES:

After successful completion of this course:

i) You should have necessary information about the Engineering profession, and

ii) You should be able to make an informed decision regarding selection of your discipline within the profession of Engineering. .

TRANSFERABILITY:

University of Alberta, Augustana Faculty-University of Alberta, Concordia University College, Canadian University College, King's University College

***Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities**. Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page http://www.transferalberta.ca or, if you do not want to navigate through few links, at http://alis.alberta.ca/ps/tsp/ta/tbi/onlinesearch.html?SearchMode=S&step=2

EVALUATIONS:

Attendance	93% of the class session
Individual presentation	20 points
Two business letters	20 points
Engineering literature search	20 points
Resume	20 points
Final Exam (Combined)	20 points

GRADING CRITERIA:

- These are pass/fail courses. The final grade will be based on written submissions, presentations, final examination, attendance in the class and relevant activities.
- All assignments must be type-written using a word processor. Late assignments will NOT receive any points.
- In order to pass the course, you must:
  - Receive minimum 80% points in each of the five components individually.
  - Attend at least 93% of the class sessions

COURSE SCHEDULE/TENTATIVE TIMELINE:

F 1130 – 1220

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, 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 http://www.gprc.ab.ca/about/administration/policies/

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