



**DEPARTMENT OF SCIENCE**

**COURSE OUTLINE –WINTER 2019**

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

**INSTRUCTOR:** Dr. Tanvir Sadiq, 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.transferralberta.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 1100 – 1150

### **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.