

DEPARTMENT OF SCIENCE

COURSE OUTLINE -WINTER 2020

EG1000 (A3) – ORIENTATION TO THE ENGINEERING PROFESSION I – 1 (1-0-0) UT 15 Hours 15 Weeks

INSTRUCTOR: Tanvir Sadiq, Ph.D., P.Eng. **PHONE:** 780.539.2865

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OFFICE HOURS: TBA or By Appointment

CALENDAR DESCRIPTION:

'Definition, brief history, technical organization: formation and functions, qualifications for membership, ethics and obligations, branches and functions of engineering are presented.'

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:
 - o Engineering Profession
 - o Branches of Engineering
 - o Engineering Ethics
 - o 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 >90% of the class session

Individual presentation20 pointsTwo business letters20 pointsEngineering literature search20 pointsResume20 pointsFinal 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:
 - o Receive minimum 70% points in each of the five components individually.
 - \circ Attend > 90% of the class sessions

COURSE SCHEDULE/TENTATIVE TIMELINE:

M 1500 - 1550

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/programs/calendar/ or the College Policy on Student Misconduct:

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