**Fall Session 2013**

**ENGR 201/H PROFESSIONAL PRACTICE & RESPONSIBILITY**

**LECTURE LOCATION– H-937**

**Thursdays, 4:15pm-5:30pm**

TUTORIALS

HA – Thursdays 17:45 -18:35am (starting WEEK 2) @ H-531 – Arun Sundaresan

HB – Thursdays 17:45am -18:35am (starting WEEK 3) @ H-531 – Arun Sundaresan

HC – Tuesdays 16:15pm -17:05pm (starting WEEK 3) @ H-459 – Mahsa Beirami

HD – Mondays 08:45pm -09:35pm (starting WEEK 2) @ H - 459 – Mahsa Beirami

INSTRUCTOR: Dr. Brandiff R. Caron

***OFFICE:*** EV 2.249

***PHONE:*** 514-848-2424 x 5130

***EMAIL:*** brandiff.caron@ concordia.ca

***OFFICE HOURS:*** MONDAYS and WEDNESDAYs 3-4PM or by appointment.

**TUTORS:**

***Arun Sundaresan*** (boysmunna4u@gmail.com)

***Mahsa Beirami***  (mahsa.beirami@gmail.com)

Course Description

University undergraduate calendar 2012-2013 describes this course as follows:

**ENGR 201 *Professional Practice and Responsibility*** (1.5 credits)  
Health and safety issues for engineering projects: Quebec and Canadian legislation; safe work practices; general laboratory safety common to all engineering disciplines, and specific laboratory safety pertaining to particular engineering disciplines. Review of the legal framework in Quebec, particularly the Professional Code and the Engineers Act, as well as professional ethics. Lectures: one and a half hours per week. Tutorial: one hour per week, alternate weeks.  
*NOTE: Students who have received credit for ENGR 402 or SOEN 402 may not take this course for credit.*

This course will introduce students to the wide spectrum of roles and responsibilities that guide the professional practice of engineers. Many engineers, unlike scientists, practice as professionals. Being a professional entails that individuals adhere to a body of laws called the Code of Engineers or the Professional Code. This code requires the professional to abide by its different provisions that deal with duties and obligations to society. In this class we will understand professionalism, the engineering code and ethical practice of engineers with special reference to Quebec and Canada. This course is particularly important because it will directly address CEAB’s graduate attributes on professionalism and ethics by seeking to develop among students an understanding of the roles and responsibilities of the professional engineer in society, especially the primary role of protection of the public and the public interest. In addition this course will also develop an ability to apply professional ethics, accountability and equity.

**Learning Objectives of this course are:**

1. Understand what is entailed by a professional order and by professionalism.

2. Comprehend the utility of ethical frameworks in thinking through moral questions.

3. Gain familiarity with professional duties and obligations of engineers.

4. Awareness about the legal dimensions of professional practice.

***All REQUIRED course reading will be available on the Moodle site for the course.***

CLASSROOM RULES

***Lecture*** – Each Thursday I will provide lectures. These lectures will highlight some of the important points from the readings for the day. Your duty will be to come to class having read all of the assigned reading for the day posted on moodle, ready to ask any questions you may have. I would like to specify the following rules for orderly functioning of the lecture:

a. If you have a question about what I said or what another student said, raise your hand and you will be given the chance to ask your question. In class discussions will be conducted in a respectful and non-discriminatory fashion.

b. Continued disruptive behavior will be penalized. Disrespect towards the instructor in class, arriving late to class and leaving early from class on a regular basis will be noted and penalized. Talking to your neighbor during lectures or talking on the cell phone in class also counts as disruptive behavior.

c. If you think you will find it difficult to keep up with the class or have any special needs that I should know about, come and see me during office hours.

***Tutorial*** - Please attend the very same tutorial section that you are assigned to on the class roll. Do not migrate from one tutorial section to another. Since schedules for tutorial sections are a bit complicated, please remember which days your tutorial meets. ***All tutorials meet only once every TWO weeks.*** Tutorial sections HD and HA will meet the first time on “week 2” (as defined in this syllabus below). These sections will then meet all even-numbered weeks of this semester after that (as defined below). Tutorial Sections HC and HB will meet for the first time on “week 3” (as defined in this syllabus below). They will then meet all odd-numbered weeks of the semester after that (as defined below).

***Academic Integrity*** – The work students complete for this course will be their own, which is to say that cheating, plagiarism, and other forms of academic dishonesty will not be tolerated. Any written assignment that borrows from other sources without giving proper credit or that is plagiarized in whole or in part from another source (including other student’s work) is grounds for an “F” on the assignment, or depending on the severity of the infraction, is grounds for an “F” in the course. Concordia University recognizes as a punishable offence “any form of cheating, plagiarism, personation, falsification of a document as well as any other form of dishonest behaviour related to the obtention of academic gain or the avoidance of evaluative exercises” (Code of Academic Conduct, Section 16.3.14, Paragraph III). For questions about the University's policy on cheating and plagiarism, please consult the Undergraduate Calendar at http://registrar.concordia.ca/calendar/16/sec16.html

***Academic Support*** – The university acknowledges that students have diverse education needs. The university tries to accommodate a wide variety of such needs. Please do not hesitate to contact the following if you think you have a special need:

*Advocacy and Support Services* - http://supportservices.concordia.ca/studentadvocateprogram/

*Centre for Mature Students* - http://relish.concordia.ca/cms/

*Concordia Counselling and Development* - http://cdev.concordia.ca/

*New Student Program* - http://newstudent.concordia.ca/

*Office for Students with Disabilities* - http://supportservices.concordia.ca/disabilities/

*Concordia Counselling and Development* – http://cdev.concordia.ca/

*Student Learning Services* - http://learning.concordia.ca/

***If you have any special needs please contact me to discuss your situation.***

ASSIGNMENTS

1**. Quizzes (3 x 15% of your grade):** There will be three in-class quizzes in the semester. These quizzes will try to test your grasp of key concepts, your ability to analyze and your familiarity with the readings. PLEASE BRING A PEN TO QUIZ DAYS. ALL QUIZ ANSWERS MUST BE SUBMITTED IN INK.

2. **Final examination (35% of your grade):** The final examination for the course will be comprehensive, covering material from the entire semester.

3. **Tutorials (20% of your grade):** Each of you will regularly attend the tutorial section you are assigned to. In the tutorial the tutor will assign a problem that you will analyze as a team and then submit your work to the tutor.

GRADING

I will use the following numerical base for your letter grade:

A+ (90-100%) Exceptional A – (85-89%) A- – (80-84%)

B+ – (77-79%) B – (73-76%) B- – (70-72%)

C+ – (67-69%) C – (63-66%) C- – (60-62%)

D+ – (57-59%) D – (53-56%) D- – (50-52%)

F <50% Fail R <20% Repeat NR Grade not Reported

***COURSE OUTLINE***

**Topic 1: Introduction**

Lecture: September 5th. Course Introduction

*No tutorials for 1st week.*

**Topic 2: What is a Profession?**

Lecture: September 12th. Read (prior to lecture) “The Definition of a Profession” from Moodle site.

Tutorial Sections: HD meets on Monday, Sept 9th. HA meets on Thursday, Sept. 12th.

**Topic 3: Professional System in Quebec**

Lecture: September 19th. Read “The Engineers Act” and follow link “Quebec Professional System” and read all from moodle site.

Tutorial Sections: HC meets on Tuesday, Sept 17th. HB meets on Thursday, Sept 19th.

**Topic 4: What are Ethics?**

Lecture: September 26th. Read “Engineering Ethics” from moodle.

Quiz 1 – 2nd half of lecture.

Tutorial Sections: HD meets on Monday, Sept 23rd. HA meets on Thursday, Sept 26th.

**Topic 5: Ethical Reasoning**

Lecture: October 3rd. Read “Canadian Professional Engineering and Geoscience - Practice and Ethics.” From moodle.

Tutorial Sections: HC meets on Tuesday, Oct 1st. HB meets on Thursday, October 3rd.

**Topic 6: Ethics & Institutions**

Lecture: October 10th. Read both links for “Understanding Organizational Behavior” on moodle

Tutorial Sections: HD meets on Monday, October 7th. HA meets on Thursday, Feb 14th.

**Topic 7: Ethics & Professional Life: Loyalty and Trust**

Lecture: October 17th. Read “The Rights and Responsibilities of Engineers.” On moodle

Quiz 2 - 2nd half of lecture.

Tutorial Sections: HC meets on Tuesday, Oct 15th. HB meets on Thursday, Oct 17th.

**Topic 8: Duties to the Profession**

Lecture: October 24th. Familiarize yourself with: <http://www.oiq.qc.ca/en/Pages/accueil.aspx>

Tutorial Sections: HD meets on Monday, Oct 21st. HA meets on Thursday, Oct 24th.

**Topic 9: Duties to the Public**

Lecture: October 31st. Read “APEGGA. 2005. Guidelines for Human Rights Issues in Professional Practice.” On moodle.

Tutorial Sections: HC meets on Tuesday, Oct 29th. HB meets on Thursday, Oct 31st.

**Topic 10: Legal Issues**

Lecture: November 7th. Read <http://www.canadiana.ca/citm/specifique/lois_e.pdf> on moodle.

Tutorial Sections: HD meets on Monday, Nov 4th. HA meets on Thursday, Nov 7th.

**Topic 11: Responsibility & Liability**

Lecture: November 14th. Read “Risk, Safety, and Accidents” on moodle.

QUIZ 3 – 2nd half of lecture

Tutorial Sections: HC meets on Tuesday, Nov 12th. HB meets on Thursday, Nov 14th.

**Topic 12: Issues in Professional Practice**

Lecture: November 21st. Read “Doing the Right Thing” on moodle.

Tutorial Sections: HD meets on Monday, Nov 18th. HA meets on Thursday, Nov 21st.

**Topic 13: Review**

Lecture: November 28th. Review Course Material

Tutorial Sections: HC meets on Tuesday, Nov 26th. HB meets on Thursday, Nov 28th.

**FINAL EXAM TIME/PLACE: TBA**