ENGG 102  Introduction to the Engineering Profession

2 Credits, 16 weeks, 2 Hours Lab per week

Official course description: This course is an introduction to the engineering profession. Students may examine: engineering disciplines; cooperative education; study skills; career fields and work opportunities; history and development of the profession; professional responsibilities; ethics; and engineering and society. A survey of graphical communication methods and an introduction to the design process used by engineers may be included. Where required, students will attend seminars presented by professional engineers of various disciplines.

Prerequisite: Admission into the engineering program at Keyano College or permission of the Chairperson.

Instructor

Instructor: Neil O'Donnell
Office location: S209g
Phone number: 780-791-4821
email_neil.odonnell@keyano.ca

Office Hours (Fall 2015)

Tuesday 1:00 – 1:50 pm
Wednesday 2:00 – 2:50 pm
Thursday 1:00 – 2:50 pm
Friday 1:00 – 1:50 pm

Hours of Instruction

Monday 7:00 – 9:00 pm Room S214

Required Resources


Course Outcomes

The successful student will be able to:

• Explain and contrast the various traditional and emerging disciplines within the engineering profession.
• Conceptualize ethical problems in engineering, and formulate possible solutions.
• Examine and give examples of career paths (pre- and post- degree) presented by guest speakers from the engineering industry.
• Organize networking contacts with industry representatives to facilitate possible summer employment.
• Write reports and assignments in proper engineering style.
Evaluation

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
<th>Due Date</th>
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</thead>
<tbody>
<tr>
<td>Lecture Assignments</td>
<td>15%</td>
<td>Weekly, as occur</td>
</tr>
<tr>
<td>Ethics Workshops</td>
<td>15%</td>
<td>Weekly, as occur</td>
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<tr>
<td>Reports on 5-7 Guest Speakers</td>
<td>30% (5% each)</td>
<td>Weekly, as occur</td>
</tr>
<tr>
<td>Final Examination</td>
<td>40%</td>
<td>TBA</td>
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Grading System

- Pass – You have successfully completed the course and received credit.
- Fail – You have failed to successfully complete one or more of the required components in the course and have not received credit. ENGG 102 is a requirement of your Engineering program and you must successfully complete it in order to receive your degree.

Final Exam

The final exam will be based on the content of the presentations given in class during the semester (where possible, all presentations will be posted on the Moodle site for review). You are required to achieve a grade of 70% or higher on the final exam to successfully complete the course and receive credit in ENGG 102.

Topics To Be Covered:

Classes will consist of a variety of elements, such as - lectures by the instructor or professional engineers from industry, video assignments, technical conferences, APEGA meetings, or other special presentations. The proposed schedule will be presented at the first class on Monday, Sept.14, 2015.

A number of formats for the learning of course content will be used. Details of the presentation format, term work, assignments, and text references for the content will be given as the course progresses. The order in which these topics are addressed and the time spent on each may vary, depending on the availability of guest speakers. It is your responsibility to obtain such material and information by attending class regularly. You will be expected to actively interact with our guest speakers. Together, we can make this class a productive and practical learning experience.

Performance Requirements

The classes will run 2 hours per week. Attendance is mandatory. Students will hand in completed reports no later than one week following, with no penalty. Ordinarily, after one week, a late penalty will be assessed, as outlined below.

Due Dates

- Due Dates usually are set for one week following a class, video assignment, report, technical conference, or presentation.
- Unless specified differently by instructor, reports, and assignments will be submitted electronically via Moodle.
- If submitted on or before the Due Date – full marks; may be extended another 7 days for reasonable cause approved by instructor.
- Otherwise, if submitted within one week (7 days) after the Due Date – 50% of regular mark.
- More than two weeks late – must be handed in, but will not be marked – zero assigned.
- Any changes due to special circumstances will be communicated by instructor at the class and also via Moodle. Students should check regularly.
Term Mark

- Will be determined from all the reports, and assignments.
- Mark will be weighted average of all submissions.
- If 20% or more of submissions (reports, and assignments) are missing, student will not be allowed to write the final exam.

Student Attendance

Class attendance is useful for two reasons. First, class attendance maximizes a student’s learning experience. Second, attending class is a good way to keep informed of matters relating to the administration of the course (e.g., the timing of assignments and exams). Ultimately, you are responsible for your own learning and performance in this course.

It is the responsibility of each student to be prepared for all classes. Students who miss classes are responsible for the material covered in those classes and for ensuring that they are prepared for the next class, including the completion of any assignments and/or notes that may be due.

Academic Misconduct

Students are considered to be responsible adults and should adhere to principles of intellectual integrity. Intellectual dishonesty may take many forms, such as:
- Plagiarism or the submission of another person’s work as one’s own
- The use of unauthorized aids in assignments or examinations (cheating)
- Collusion or the unauthorized collaboration with others in preparing work
- The deliberate misrepresentation of qualifications
- The willful distortion of results or data
- Substitution in an examination by another person
- Handing in the same unchanged work as submitted for another assignment
- Breach of confidentiality.

The consequences for academic misconduct range from a verbal reprimand to expulsion from the College. More specific descriptions and details are found in the Student Rights and Student Code of Conduct section of the Keyano College 2015-2016 credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Student Code of Conduct Policies.

In order to ensure your understanding of the concept of plagiarism, you must successfully complete the online tutorial found at https://www.indiana.edu/~istd/. Then print the certificate, sign it, and show it to each of your instructors. Your course work will not be graded until you show this signed certificate.

Specialized Supports

Counselling and Disability Services

Counselling Services provides a wide range of specialized counselling services to prospective and registered students, including personal, career and academic counselling.

SKILL Centre

The SKILL Centre is a learning space in the Clearwater Campus at Keyano College where students can gather to share ideas, collaborate on projects and get new perspectives on learning from our tutorial staff.

The SKILL Centre, through a variety of delivery methods, provides assistance in skill development to Keyano students. Assistance is provided by instructors, staff and student tutors. Individuals wishing to improve their mathematics, writing, grammar, study, or other skills, can take advantage of this unique service.
Authorization
This course outline has been reviewed and approved by the Program Chair.

________________________________________
Neil O’Donnell, Instructor

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Louis Dingley, Chair

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Guy Harmer, Dean

Signed copies to be delivered to:
Instructor
Registrar’s Office