EXPANDED COURSE DESCRIPTION
ENGINEERING
Lassonde School of Engineering
Civil Engineering
LE / ENG 2003 3.0 SECTION N
EFFECTIVE ENGINEERING COMMUNICATION
FALL 2018 / WINTER 2019

Last Modified Date: 08/20/2018

COURSE CALENDAR DESCRIPTION

Students learn to effectively employ communication strategies essential to a successful engineering career, including the social, rhetorical, ethical, and practical aspects of professional communications. The focus is on building individuals' confidence and judgment through communications assignments based on case studies. Prerequisite: LE/ENG 1101 4.00.

INSTRUCTOR(S)

<table>
<thead>
<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
<th>Contact Phone</th>
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</thead>
<tbody>
<tr>
<td>Krol, Magdalena</td>
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ADDITIONAL INFORMATION

TOPICS AND CONCEPTS

This course expands on the basic aspects of professional communications introduced in LE/ENG 1101 4.0 Renaissance Engineer 1: Ethics, Communication & Problem Solving. It also introduces additional topics that are important for practicing engineers including:
1. Axioms of Communication
2. Written Communication
3. Oral Communications
4. Professional Communication

COURSE LEARNING OBJECTIVES

This course aims to:
1. Articulate why good communication skills are important to a practicing engineer;
2. Review and analyze student’s own communications skills and strive to improve them continually;
3. Analyze critically the content of written and verbal materials;
4. Structure the students written and verbal presentations with the audience’s needs in mind;
5. Communicate technical information concisely and precisely, using appropriate communication strategies;
6. Engage in meaningful face-to-face communication, taking into account the context, participants and content of the conversation

COURSE LEARNING OUTCOMES

After completing this course, the students should be able to:
1. Adhere to verbal and written instructions in a professional context.
2. Explain engineering concepts to a variety of audiences using appropriate methods.
3. Develop and provide technical information clearly, using appropriate communication strategies.
4. Effectively develop and present in the written form a technical document (including charts, tables, graphs, diagrams, etc.)
5. Effectively present engineering materially orally using a variety of techniques and methods.
6. Evaluate and edit technical reports and design documents.
7. Analyze and identify their own communication skills as an Engineer, identifying gaps and areas for improvement.

**GRADED ASSESSMENT**

In class activities/participation: 20%

Assignments: 40%

Test(s): 10%

Portfolio/Term Project: 30%

**SUGGESTED TEXT:**

- Barry J. Rosenberg, “Spring into technical writing: for engineers and scientists” 2005

**ACADEMIC INTEGRITY LINKS**

- Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
- Academic Integrity - http://lassonde.yorku.ca/academic-integrity

**STUDENT LINKS**

- Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
- Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
- Counselling and Disability Services - http://cds.info.yorku.ca/
- York University’s Policies on Gender/LGBTQ*/Positive Space - http://rights.info.yorku.ca/lgbtq/

**LAND ACKNOWLEDGEMENT**

- We acknowledge our presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, the Huron-Wendat, and the Métis. It is now home to many Indigenous Peoples. We acknowledge the current treaty holders, the Mississaugas of the New Credit First Nation. This territory is subject of the Dish With One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.
- The Indigenous Framework for York University: A Guide to Action can be found here: http://indigenous.info.yorku.ca/
- Meaning of a land acknowledgement: http://healthydebate.ca/opinions/indigenous-land-acknowledgements

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Many courses utilize Moodle, York University's course website system. If your course is using Moodle, click here to access it.

**Moodle @ York University**