

## LANG4033 Technical Communication II for Civil and Environmental Engineering

### 1. Course Information

LANG 4033 is a three-credit course offered to students in the department of Civil Engineering. Over one semester, students will attend three hours of class, and will be expected to complete up to six hours of out-of-class work, per week.

The course focuses on developing communication skills for the Capstone and Final Year Projects. Students will develop their ability to write and speak about CIVIL-related topics for a variety of audiences and purposes by focusing on communication skills relevant to the Capstone Project. They will also develop their ability to use appropriate language and organization to write their Final Year Project report and give an oral presentation of their work.

### 2. Pre-requisites:

The course is open to students from the Department of Civil Engineering only. Students will take this course in Year 3 or Year 4. LANG 2030 or LANG 2030(H) is the prerequisite for LANG 4033.

Comparison of LANG 2030 and 2030(H) and LANG 4033

<b>LANG 2030</b>	<b>discipline-based</b> (all engineering students take the same course)	focuses on developing students' academic speaking and writing	general topics that are important for all engineers (social responsibility & creativity)
<b>LANG 4033</b>	<b>department-based</b> (only students from Civil Engineering take the course)	focuses on developing speaking and writing skills to meet <b>both professional and academic needs</b>	<b>professional and academic topics drawn from civil engineering.</b>

### 3. Aims of the course: Intended Learning Outcomes

Attributes	Outcomes
<b>Knowledge and Content Related skills</b>	<ol style="list-style-type: none"><li>1. Students can identify and address the needs and concerns of a variety of academic and professional audiences in speaking and writing</li><li>2. Students can support claims with appropriate evidence, and properly acknowledge sources</li><li>3. Students can critically analyze and discuss major issues and recent developments in their major and related professions</li></ol>
<b>Academic Skills and Competencies</b>	<ol style="list-style-type: none"><li>4. Students can recognize and use appropriate organizational structure, tone and formatting in written and spoken communication for different audiences and purposes</li><li>5. Students can select, summarize and synthesize information from texts in their major subject</li><li>6. Students can use accurate and fluent language (vocabulary, structures and style) relevant to engineering-related communication tasks</li></ol>
<b>Ethical Standards</b>	<ol style="list-style-type: none"><li>7. Students can demonstrate academic integrity in course assignments</li></ol>
<b>Vision and Orientation to the Future</b>	<ol style="list-style-type: none"><li>8. Students recognize the need to communicate courteously and appropriately in professional contexts</li></ol>

#### 4. Course assessment

A feasibility report on a project (individual)	25%
A presentation on a project (group and individual)	20%
The introduction and literature review of the Final Year Project report (individual)*	25%
A presentation describing progress in the Final Year Project (individual)*	25%
Out-of-class work	5%

\*There are other arrangements for students who do not have a final year project to complete the tasks.

#### 5. Course Content

##### Part 1: Professional Communication

- Report writing: constructing the context
- Report writing: analysing causes
- Report writing: discussing options
- Report writing: assessing impacts
- Report writing: making recommendations
- Presenting information to different audiences
- Presentation skills: group presentations
- Communicating with government departments
- Meetings: speaking at a public meeting
- Meetings: meeting with a client

##### Part 2: Academic Communication

- Writing the Final Year Project introduction
- Reviewing the literature
- Describing methods
- Describing results
- Completing the Final Year Project report
- Designing and using visual aids
- Presentation skills