

LANG 2010 English for Science 1

1.Course Information LANG 2010 is a three-credit, one semester core course offered to second-year undergraduates of the School of Science. Over one term, students will attend three hours of class, and will be expected to complete up to six hours of out-of-class work per week. It is an integrated skills course utilizing the problem-based case study concept to assist and enhance the development of students' confidence and competence in language, communication and general life skills.

The course aims to develop students' ability to deliver presentations and take part in discussions on topics relevant to their field of study. It also aims to enhance their ability to read and write about science-related topics, combining the use of sources with their own ideas. Language work focuses on developing the vocabulary, language structures, writing and speaking skills which will allow students to fulfil these aims.

2.Pre-requisites: CORE 1402 and CORE 1403

3. Aims of the course: Intended Learning Outcomes

1.Competency-building	<p>Students can communicate effectively in academic contexts relevant to science. They can:</p> <ol style="list-style-type: none">identify and address the needs and concerns of both technical and non-technical audiences in speaking and writingcritically analyze science-related textsselect, summarize and synthesize information from general-interest and science-related written and spoken materialsuse accurate and fluent language (vocabulary, structures and style) relevant to science-related communication taskssupport claims with appropriate evidence, and properly acknowledge sourceswrite a coherent case study report to present problems/disasters and solutions to prevent, mitigate against, prepare for, respond to and recover from the identified problems/disasters
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	<ul style="list-style-type: none"> g. deliver well-structured presentations to introduce the problems/disasters and to share progress of project and findings and solutions h. use appropriate body language, vocal variety, fluent and natural speech in the presentation to enhance communication effectiveness.
2. Leadership & Teamwork	<ul style="list-style-type: none"> a. work effectively in a team b. communicate productively with others in face-to-face / online discussions.
3.Vision and Orientation to the Future	<ul style="list-style-type: none"> a. locate and use appropriate language materials, tools and resources in developing and maintaining life-long communication skills. b. raise awareness in self-motivated learning

4. Course assessment

Assessment	Weighting	ILOs
An individual 3-min presentation (video-recorded) - Present a scientific concept in plain English	20%	1.a, b, c, d, e, h 3.a
Self-evaluation of performance in the individual presentation (SIPE)	5%	1. a, 3. a, b
A Problem Analysis (200 words) - A brief analysis of the identified negative impact/problem	5%	1. a, c, d
A group presentation update (real-time) - Present an update in a group on the natural disaster case study project	20%	1.a, b, c, d, e, g, h 2.a, b 3.a
iPeer - Self and peer evaluation of performance in the group work for the presentation.	5%	1.e 2.a, b
An individual recommendation report (1200-1500 words) - Recommend solution to the negative impact in the	35%	1.a, b, c, d, e, f 3.a

natural disaster case.		
Library workshop - Participation in the library workshop on research and referencing skills -Post-workshop quiz (graded)	5%	1.e 3.a
Online and in-class activities - Completion of online pre-unit tasks and out-of-class work	5%	1a, 2.a, 3.a, b

5.Course Content

Unit 1 Science in Plain English (SIPE) Oral Presentation

- Understanding science communication
- Analyzing audience
- Making science (scientific concepts) more understandable
- Organizing and scripting an oral presentation
- Engaging the audience (1) - voice and connected speech
- Engaging the audience (2) - non-verbal communication strategies

Unit 2 Case Study Project on a Natural Disaster

- Exploring science and natural disasters
- Exploring natural disasters and their negative impacts
- Conducting a case analysis
- Reporting project progress
- Presentation strategies (1) - use of visual aids
- Presentation strategies (2) - presentation etiquette
- Presentation strategies (3) - Q & A session
- Writing a recommendation report
- Exploring solutions
- Comparing solutions and making recommendation
- Language focus in writing – tone and style in report writing
- Graphic representation and explanation