

## LANG 3023

### Science Communication in English (Physics)

#### 1. Course Description

LANG 3023, **Science Communication in English (Physics)**, is a three-credit course offered to third-year students in Physics. Over one semester, students will attend three hours of class and will be expected to complete up to three hours of out-of-class work per week. The course focusses on two overarching themes:

##### a) Science communication and story-telling

You will gain an understanding of the importance of science communication and the role of storytelling therein, developing the skills to effectively analyze popular science articles and presentations aimed at the general public, as well as to use appropriate strategies to make your own science communication – writing and speaking – accessible and interesting to lay audiences.

##### b) Communicating controversy in Physics

You will gain an understanding of public attitudes to and controversies in Physics and how such controversies are presented in speech and in writing, developing the skills to critically read and write about – as well as present – scientific controversies in an accessible and interesting way to lay audiences.

#### 2. Aims of the course: Intended Learning Outcomes (ILOs)

<b>1. Knowledge and Content Related</b>	You can: <ul style="list-style-type: none"><li>a. Formulate a specific message related to physics to the public;</li><li>b. Retrieve salient points made in popular science articles in the field of physics.</li></ul>
<b>2. Academic Skills and Competencies</b>	You can: <ul style="list-style-type: none"><li>a. Demonstrate knowledge of the features of various spoken and written genres in science communication;</li><li>b. Communicate effectively scientific concepts and knowledge in writing and oral presentations to lay audiences;</li><li>c. Communicate effectively in a team through involvement in group work.</li></ul>
<b>3. Ethical Standards</b>	You can demonstrate academic integrity in course assignments.
<b>4. Vision and Orientation to the Future</b>	You can: <ul style="list-style-type: none"><li>a. Recognize the need to communicate courteously and appropriately in professional contexts;</li><li>b. Engage in lifelong language learning through intelligent selection and adaptation of various learning resources.</li></ul>

### 3. Course Assessment

<b>Assignment Task</b>	<b>Main skills assessed</b>	<b>ILOs</b>
Telling the story of the development of a physics idea	Writing	1a, b 2a, b 3 4a, b
Science podcast to discuss a physics issue from different perspectives	Speaking	1a, b 2a, b 3 4a, b
TED-style talk on a physics controversy	Speaking	1a, b 2a, b 3 4a, b
Checkpoint Tasks: in-class and out-of-class speaking and writing tasks	Mixed	1a, b 2a, b, c 4a, b