

Syllabus (2022-Summer)

Course Title	Introduction to Technical Writing	Course No.	-
Credit	3 credits	Hours	45 Hours
Class Time Classroom	9AM–11:30AM Mon to Thr Classroom TBA		
Instructor	Name Beelee Chua	Department Electrical Engineering	
	E-mail bchua@korea.ac.kr	Phone -	
Office Hours Office Location	Office hours TBA (Please email for the appointment)		

I. Course Overview

1. Course Description

The objective of the class is share the essentials of technical writing in the context of scientific journal publications. Over the last 10 years, publishing in scientific journals is no longer limited to graduate students in masters and PhD programs. As undergraduate students begin their research internship earlier in their undergraduate programs, the achievement of research objectives within the duration of internship has become a possibility. This means undergraduate researchers will have the opportunity to publish their undergraduate research in peer-reviewed journals before or soon after graduation. A successful undergraduate research internship and publication will be very beneficial for one's future career in research. Specifically, this class will outline the scientific publication ecosystem, research and writing processes as well as discussion of common pit falls.

2. Prerequisites

None

3. Course Format

Lecture	Discussion/Presentation	Experiment/Practicum	Field Study	Other
60%	40%	%	%	%

4. Course Objectives

- Highlight the value of undergraduate internships and publication of one's research.
- Learn the inner workings within the scientific publication ecosystem.
- Understand the structure of research and publication planning.
- Encourage students to engage in undergraduate research and showcase their work.

5. Evaluation Systems

Relative evaluation Absolute evaluation (for Ewha International Summer College students only) Others

Midterm Exam	Final Exam	Quizzes	Presentation	Projects	Assignments	Participation	Others
20%	30%	%	0%	0%	40%	10%	%

II. Course Materials and Additional Readings

1. Required Materials

Lecture notes will be given during class. Presentations will be held offline. The classroom and time will be announced

2. Supplementary Materials

None

3. Optional Additional Readings

None

III. Course Schedule

Day	Date	Topics & Class Materials, Assignments		
Day 1	(6/30)	Part I. Everything is related	Introduction to class; Chap 1. A Career in Research Chap 1.1. Career opportunities; Chap 1.2. How to have an early start.	
Day 2	(7/4)		Chap 2. Why we publish Chap 2.1. Types of publications; Chap 2.2. Implications of publications	
Day 3	(7/5)		Chap 3. Choosing the research Chap 3.1. How to find the research advisor and topics that works for you; Chap 3.2. Pitfalls of underestimating and overestimating yourself	
Day 4	(7/6)		Chap 4. Planning, scripting & audience Chap 4.1. Narrative, story-telling & elevator pitch Group Assignment	
Day 5	(7/7)		Chap 5. Bright and dark side of publishing Chap 5.1. Legitimate and predatory publishers Chap 5.2. Plagiarism, paper mills and data manipulation Group assignment	
Day 6	(7/11)		Chap 6. Stages of publishing in a scientific journal Chap 6.1. Preparation & submission; Chap 6.2. Review, reject, revise, accept	
Day 7	(7/12)		Chap 7. Emotional rollercoaster Chap 7.1. Difference between doing research and leading it. Chap 7.2. Handling rejection	
Day 8	(7/13)			Midterm exam
Day 9	(7/14)		Part II. We are ready to write	Chap 8. Outline of a regular research article Chap 8.1. Text Chap 8.2. Figures & plots

Day	Date	Topics & Class Materials, Assignments	
Day 10	(7/18)		Chap 8.3. Materials & Methods (Factual Writing); Chap 8.4. Creating illustrations using Powerpoint; Group Assignment: Use Powerpoint to create illustrations
Day 11	(7/19)		Chap 8.5. Results & Discussion (Factual Writing & Opinions); Chap 8.6. Introduction & Abstract (Embellished Writing)
Day 12	(7/20)		Chap 9. How to annoy reviewers Chap 9.1. Bad font, grammar and figures; Chap 9.2. Exaggeration and over-embellishment Group assignment: Identify issues with a plot.
Day 13	(7/21)		Chap 10. Submission package Chap 10.1. Cover letter; Chap 10.2. Check and double-check
Day 14	(7/25)		Chap 11. Filing patent applications Chap 11.1. It is all about claims
Day 15	(7/26)		Chap 12. Getting press coverage Chap 12.1. Catchy & fun
Makeup Classes 1	(mm/dd)		None
Makeup Classes 2	(mm/dd)		None

IV. Special Accommodations

* According to the University regulation section #57-3, students with disabilities can request for special accommodations related to attendance, lectures, assignments, or tests by contacting the course professor at the beginning of semester. Based on the nature of the students' request, students can receive support for such accommodations from the course professor or from the Support Center for Students with Disabilities (SCSD). Please refer to the below examples of the types of support available in the lectures, assignments, and evaluations.

Lecture	Assignments	Evaluation
<ul style="list-style-type: none"> . Visual impairment: braille, enlarged reading materials . Hearing impairment: note-taking assistant . Physical impairment : access to classroom, note-taking assistant 	Extra days for submission, alternative assignments	<ul style="list-style-type: none"> . Visual impairment: braille examination paper, examination with voice support, longer examination hours, note-taking assistant . Hearing impairment: written examination instead of oral examination . Physical impairment: longer examination hours, note-taking assistant

- Actual support may vary depending on the course.

* The contents of this syllabus are not final—they may be updated.