

National Tsing Hua University 113-1A

[Research Writing in Science and Technology]

〔科技論文寫作〕

Course Information (課程資訊)

Course Number	11310LANG200045	Credits	2	Classroom	EDU 教 103
Class hours	■ Thursday				
	■ 13:20 -- 15:10				
Course Type	■ EAP (English for academic purposes)				
Language Level	■ B2 (中高級) ■ B2+ ■ C1				
Core Ability	■ Production				
可選課學生身分別	■ Top students (頂標生) ■ High-achieving students (前標生)				
Prerequisites	無				
加簽說明	■ All students must enroll through the course selection system using random selection. Manual enrollment will not be allowed after reaching the maximum capacity.				

Instructor & Contact Information (授課教師)

Name	Email	Office Hour
Siru Lin (林席如)	sr168dr168@gapp.nthu.edu.tw	By appointment

Course Aims / Description (課程目標)

Primary aim	This course aims to enhance students' research writing skills in English within the context of science and technology. Through a combination of theoretical instruction and practical exercises, students will develop the ability to conduct research, analyze data, and communicate findings effectively in written form.		
Subsidiary aim	This course also focuses on developing the following skills according to Bloom's taxonomy: Remembering, Understanding, Applying, Analyzing, Evaluating, and Creating.		
Corresponding CEFR Can-do statements	1. [CEFR Can-do statements 2.1 Communicative Activities: Reception, Reading for Orientation, CEFR-B2] Can scan quickly through long and complex texts, locating relevant details.	EAP	
	2. [CEFR Can-do statements 2.1 Communicative Activities: Reception, Reading for Information & Argument, CEFR-B2] Can obtain information, ideas and opinions from highly specialized sources within his/her field.	EAP	
	3. [CEFR Can-do statements 2.1 Communicative Activities: Production Spoken, Addressing Audiences, CEFR-B2]	EAP	

	Can give a clear, systematically developed presentation, with highlighting of significant points, and relevant supporting detail.	
4.	[CEFR Can-do statements 2.1 Communicative Activities: Production Written, Reports & Essays, CEFR-B2] Can write an essay or report that develops an argument systematically with appropriate highlighting of significant points and relevant supporting detail.	EAP
5.	[CEFR Can-do statements 2.2 Communication Strategies: Interaction, Cooperating, CEFR-B2] Can give feedback on and follow up statements and inferences and so help the development of the discussion.	EAP
6.	[CEFR Can-do statements 2.2 Communication Strategies: Interaction, Asking for Clarification, CEFR-B2] Can ask follow up questions to check that he/she has understood what a speaker intended to say, and get clarification of ambiguous points.	EGP
7.	[CEFR Can-do statements 2.2 Communication Strategies: Interaction, Planning, CEFR-B2] Can plan what is to be said and the means to say it, considering the effect on the recipient/s.	EGP
8.	[CEFR Can-do statements 2.4 Communication Language Competence: Linguistic, Control, Grammatical Accuracy, CEFR-B2] Good grammatical control. Occasional "slips" or non-systematic errors and minor flaws in sentence structure may still occur, but they are rare and can often be corrected in retrospect.	EGP
9.	[CEFR Can-do statements 2.4 Communication Language Competence: Linguistic, Control, Vocabulary Control, CEFR-B2] Lexical accuracy is generally high, though some confusion and incorrect word choice does occur without hindering communication.	EGP
10.	[CEFR Can-do statements 2.4 Communication Language Competence: Linguistic, Control, Phonological Control, CEFR-B2] Has a clear, natural, pronunciation and intonation.	EGP

University Student Core Competency Indicators (英文核心能力指標)

1. ability to communicate and express oneself in English	25%
2. ability to think critically and organize ideas logically in English	25%
3. knowledge of English learning strategies and techniques	25%
4. global views of English and multicultural diversity	0%
5. ability to use existing English learning resources and development of independent self-learning habit	25%

Teaching Materials and References (教材和參考資料)

Textbook(s)	The instructor thoughtfully crafts the course content, and students are required to bring a smartphone or laptop with internet connectivity to engage in online assignments during each class session.
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Requirements & Rules (要求與規定)

1. Regular Attendance: Attend all scheduled classes to maximize learning opportunities.
2. Active Participation: Actively engage in class activities.
3. Assignments: Complete assigned tasks within specified deadlines.

Teaching Activities (教學活動)

The instructional approach will encompass diverse techniques such as lectures, discussions, presentations, quizzes, and writing tasks. Additionally, students will engage in the development of a research paper over the course of the semester.

Classroom Languages (課室語言)

English (英文) 70%	Mandarin (中文) 30%
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Grading (評分方式)

1. Attendance	10%
2. Quizzes & Reflections	15%
3. Midterm Exam	15%
4. Final Exam	25%
5. Assignments	35%

Guidelines for Students Using AI (學生使用 AI 的規則)

Students are encouraged to utilize artificial intelligence (AI) in a conscientious and ethical manner, following principles of academic integrity. It is advisable to consider AI as a supplementary resource to enhance research and writing skills, rather than relying solely on its suggestions. (鼓勵學生以有良知和道德的方式利用人工智慧 (AI)，遵循學術誠信原則。建議將 AI 視為一種輔助資源，以增強研究和寫作能力，而不是僅僅依賴其建議。)

Weekly Syllabus (每周教学大纲)

Wk	Date	Course Content
01	09/05 (四)	Orientation
02	09/12 (四)	Choosing a Topic for the Initial Draft
03	09/19 (四)	Unit 01: Crafting the Introduction
04	09/26 (四)	Unit 01: Crafting the Introduction
05	10/03 (四)	Unit 02: Constructing Citations and References
06	10/10 (四)	Double Tenth Day (no class)
07	10/17 (四)	Unit 03: Detailing Research Methods
08	10/24 (四)	Midterm Exam
09	10/31 (四)	Unit 04: Presenting Research Results
10	11/07 (四)	Unit 04: Presenting Research Results
11	11/14 (四)	Unit 05: Discussing Findings
12	11/21 (四)	Unit 05: Discussing Findings
13	11/28 (四)	Unit 06: Formulating Conclusions
14	12/05 (四)	Unit 07: Crafting the Abstract
15	12/12 (四)	Unit 08: Revising Final Paper and Presentation Slides
16	12/19 (四)	Final Exam