

SUBJECT OUTLINE DETAILS

1. Subject: Writing in Science and Technology (Tiếng Anh chuyên ngành)

- Code: EN103C
- Credits: 3
- Hours: 30 theory hours

2. Management Unit:

- Biotechnology Research and Development Institute

3. Prerequisites: EN102C – Advanced English II

4. Subject objectives:

By the end of the course, students will be able to

4.1. Knowledge:

- 4.1.1. Recall the writing process in research
- 4.1.2. Recognize the major components of a piece of scientific writing
- 4.1.3. Remember and apply the principles of writing in science and technology

4.2. Skill:

- 4.2.1. Demonstrate clear and accurate writing skills in science and technology
- 4.2.2. Demonstrate logical, analytical, and critical writing skills
- 4.2.3. Demonstrate self-editing and proofreading skills

4.3. Attitude:

- 4.3.1. Understand the issue of plagiarism in research
- 4.3.2. Understand the ethical issues in research writing

5. Brief description of subject content:

This course aims to demystify the writing process and teach the fundamentals of effective scientific writing. Instruction will focus primarily on the process of writing and presenting scientific papers. The course will be presented in three segments: Chapter (1) teaches students how to write effectively, concisely, and clearly; Chapter (2) highlights some grammatical and mechanical errors; and Chapter (3) takes students through the preparation of a scientific manuscript.

6. Subject content structure:

6.1. Theory

	Content	Hours	Objectives
Chapter 1	Writing Skills		
1.1.	Planning and preparation	18	4.1; 4.2; 4.3
1.2.	Breaking up long sentences		
1.3.	Structuring paragraphs and sentences		
1.4.	Removing redundancy		
1.5.	Avoiding ambiguity		
1.6.	Clarifying who did what		

1.7. Highlighting the findings		
1.8. Hedging and criticizing		
1.9. Paraphrasing and plagiarism		
1.10. Visual support for the written word		
1.11. Revising to increase coherence		
Chapter 2 Grammatical Accuracy in Writing		
2.1. Improving word choice and syntax style	9	4.1; 4.2; 4.3
2.2. Word order		
2.3. Attending to mechanics		
2.4. Proofreading and grammar check		
Chapter 3 Sections of a research paper		
3.1. Titles	18	4.1; 4.2; 4.3
3.2. Abstracts		
3.3. Introduction		
3.4. Review of the literature		
3.5. Methods		
3.6. Results		
3.7. Discussion		
3.8. Conclusions		

7. Teaching method:

- Lecturing
- Holding small group discussions
- Using task-based approach

8. Duties of student:

- Students have to do the following duties:
- Attending the class regularly
 - Participating in small group discussions
 - Completing all assignments before class
 - Completing the final exam

9. Assessment of student learning outcomes:

9.1. Assessment

No.	Point components	Rules and Requirement	Weights	Objectives
1	Regular attendance	Attending at least 36 out of 45 hours	10%	
2	Assignments	Five writing assignments	50%	4.1; 4.2; 4.3
3	Final paper	Research paper (1,500 words)	40%	4.1; 4.2; 4.3

9.2. Grading

- Grading components and final test scores will be marked on a scale of 10 (0 to 10), rounded to one decimal place.
- Subject score is the sum of all the components of the evaluation multiplied by the corresponding weight. The subject score is marked on a scale of 10 and rounded to one decimal place, then is converted to A-B-C-D score and score on a scale of 4 under the academic provisions of the University.

10. Materials:

Materials information

Code number

[1] Wallwork, A. (2011). *English for writing research papers*. New ...

York: Springer.

[2] Matthews, J. R. & Matthews, R. W. (2008). *Successful scientific writing: A step-by-step guide for the biological and medical sciences* (3rd ed.). Cambridge: Cambridge University Press. ...

[3] Bailey, S. (2011). *Academic writing: A handbook for international students* (3rd ed.). London: Routledge. ...

11. Self-study Guide:

Week	Content	Theory (hours)	Practice (hours)	Students' duties
1	1.1.Planning and preparation 1.2.Breaking up long sentences	3	0	Read [1] pp. 3-17; 33-51
2	1.3.Structuring paragraphs and sentences 1.4. Removing redundancy	3	0	Read [1] pp. 53-87
3	1.5. Avoiding ambiguity 1.6. Clarifying who did what	3	0	Read [1] pp. 89-119
4	1.7. Highlighting the findings 1.8. Hedging and criticizing	3	0	Read [1] pp. 121-149
5	1.9. Paraphrasing and plagiarism	3	0	Read [1] pp. 151-159 Assignment 1
6	1.10. Visual support for the written word 1.11. Revising to increase coherence	3	0	Read [2] pp. 56-78; 103-124
7	2.1. Improving word choice and syntax style	3	0	Read [1] pp. 125-152 Assignment 2
8	2.2. Word order 2.3. Attending to mechanics	3	0	Read [1] pp. 19-32 Read [2] pp. 153-181
9	2.4. Proofreading and grammar check	3	0	Read [3] pp. 90-96 Assignment 3
10	3.1.Titles 3.2. Abstracts	3	0	Read [1] pp. 163-193
11	3.3. Introduction	3	0	Read [1] pp. 195-205 Assignment 4
12	3.4. Review of the literature	3	0	Read [1] pp. 207- 215
13	3.5. Methods	3	0	Read [1] pp. 217-231 Assignment 5
14	3.6. Results	3	0	Read [1] pp. 233-242
15	3.7. Discussion 3.8. Conclusions	3	0	Read [1] pp. 243-269 Final paper

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**ON BEHALF OF RECTOR
DEAN/ DIRECTOR**

HEAD OF DEPARTMENT