

《English Skills for Scientists》 Syllabus

Course Number: NANA1046

Course Name: English Skills for Scientists

Course Category: Compulsory Course

Credits/Contact Hours: 4 Credits: 72 hours

Evaluation Method: Weekly Quizzes + Written Paper + Final Examination

Semester: 1st semester

Prerequisites: None

Follow-Up: NANA1067

Lecturer: Tony Little, Burt Bedo

Syllabus Author: Tony Little

Syllabus Reviewer: Alexander Brandt

Text Book: None

(1) Specific Goals for the Course

This course aims to provide students with the skills and language needed to study scientific materials in English. Students will attend weekly lectures which introduce different scientific topics as well as English classes before and after each lecture which will prepare them for the content of the lecture and give opportunities to explore their understanding of the topic in English. Students will be given key vocabulary and spoken and written academic structures to interact with the weekly content and will be provided with multimedia input of the course material to engage with scientific ideas. Students will be given help and support to express scientific ideas in English and will be encouraged to develop autonomous and group skills in research and learning.

By the end of the course, students should be able to:

- (i) Work collaboratively to understand and produce scientific texts. (Support Graduation Requirements Indicator 9-2).
- (ii) Use appropriate English vocabulary and grammar in discussing and sharing international scientific ideas. (Support Graduation Requirements Indicator 10-3)

(2) Topics for the Course

At the end of the course students will be able to:

- Record accurate notes in classroom activities and lectures.
- Apply knowledge of text connections to understand academic texts and write their own connected texts.
- Identify key ideas in academic texts and paraphrase them to explain the content to others.
- Isolate key vocabulary and grammatical structures in spoken texts.
- Practice accurate pronunciation of technical vocabulary.
- Explain the concepts presented in lecture content and take active part in group discussions.

- Present scientific information as an individual and as part of a group.

(3) Assessments for the Course

- **Course Score = Weekly Quizzes (WQ, 30%) + Written Paper (WP, 30%) + Final Examination (FE, 40%)**
- **Achievement of Course Goal = (WQ Mean Score*WQ Weight*0.3 + WP Mean Score*WP Weight*0.3 + FE Mean Score*FE Weight*0.4) / (100*WQ Weight*0.3 + 100*WP Weight*0.3 + 100*FE Weight*0.4)**

Course Goal	WQ Weight	WP Weight	FE Weight
(i) Work collaboratively to understand and produce scientific texts. (Support Graduation Requirements Indicator 9-2).	0.3	0.7	0
(ii) Use appropriate English vocabulary and grammar in discussing and sharing international scientific ideas. (Support Graduation Requirements Indicator 10-3)	0.7	0.3	1

Rubrics for the Course:

Course Goal	90-100 (Excellent)	75-89 (Good)	60-74 (Pass)	0-59 (Fail)
(i) Work collaboratively to understand and produce scientific texts. (Support Graduation Requirements Indicator 9-2).	Values, encourages, and acknowledges the work of other group members.	Respects differing points of view. Agree on group priorities, goals, and procedures.	Listens attentively to members of the group. Contributes some to end product of the group.	Acknowledges members of the group. Cooperates reluctantly or obstructs progress.
(ii) Use appropriate English vocabulary and grammar in discussing and sharing international scientific ideas. (Support Graduation Requirements Indicator 10-3)	Demonstrates excellent understanding of vocabulary definitions and spelling, while managing to produce sound sentences. Shows excellent	Demonstrates great understanding of the vocabulary definitions and spelling, but are somewhat misplaced and not consistently structured in	Demonstrates basic understanding of vocabulary definitions, but fails to correctly link and/or spell them within sound sentences. Shows basic	Demonstrates insufficient understanding of the vocabulary definitions and sound application in sentences. Shows insufficient

	<p>understanding and application of grammar concepts.</p>	<p>sound sentences. Shows great understanding of grammar concepts, but sentences lack full clarity and mastery of tenses.</p>	<p>understanding of grammar concepts, but fail to recognize and use proper tenses to form sound sentences.</p>	<p>understanding of past, present, and future tenses that conflict with unit goal expectations.</p>
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