Course Specification

Name of Institution : Buriram Rajabhat University
Faculty / Programme : Faculty of Sciences / Biology Programme

Section 1

Overview

1.	**Subject :** English for Biology **Subject code :** 4034113
2.	**Credit :** 2 (2-0-4)
3.	**Course** **Program of the course :** Bachelor degree **Course Category :** Required subject
4.	**Instructor :** Miss Sirinee Jirajessada
5.	**Semester / Year of study** **Semester :** 1/2024 **Student :** Bachelor Degree in Biology (64/M.1)
6.	**Pre-requisite** None
7.	**Co-requisite** None
8.	**Teaching venue:** Faculty Sciences
9.	**Date of course preparation:** May 5, 2024

Section 2

Aims and Objectives

1. Aim of Course

Students are able to

1.1 Correctly acquire skill in using English for Biology.

1.2 Apply both knowledge and skills to read and understand international scientific articles.

1.3 Efficiently search for current topics and issues with the search keywords in English.

1.4 Can correlate the use of English to other topics in related field of study in Biology.

2. The purpose of developing / updating the course

For teaching and learning by using English as the instructional medium language.

Section 3

Nature and Operation

1. Course Description

This course is designed to assist students to correctly acquire skill in using English for Biological Science, reading, translating scientific articles, preparing the presentation, abstract and manuscript writing for publish.

2. Hours per semester

Lecture	Remedial Teaching	Practice / Field / internship	Self-study
30 Hours	-	-	4 Hours/week

3. Hours per week for individual consultation and technical advice to students

- Every Wednesday 1 PM – 4 PM in the afternoon (Appointment is needed).

Section 4

Development & Students' Learning Performance

1. Ethics

1.1. The expected learning outcomes of TQF framework: morality

1.1.1. Honest.

1.1.2. Discipline and self-responsibility.

1.1.3. Respect and corporate the professional ethics.

1.1.4. Respect and listen to the opinions of others.

1.1.5. Having public mind.

1.2. Teaching methods

1.2.1. Lecturer being a good role model to students.

1.2.2. Assign group topic of discussion.

1.2.3. Discussion on the students' value & morality, such as, punctuality, discipline, honesty, responsibility for their own professional and social, tolerance, realistic, positive attitude towards the profession, and respect the rights and opinions of others.

1.2.4. Make an agreement with students about the rules and practices in teaching.

1.2.5. Student center teaching approach.

1.3. Evaluation methods

1.3.1. Observe the ethical behavior of students, both in and outside the classroom

1.3.2. Observe the punctuality and discipline.

1.3.3. Observe the cheating habits during all examination.

1.3.4. Self-responsibility and assignment.

2. Knowledge

2.1. The expected learning outcome of TQF framework: knowledge

2.1.1 Correctly acquire concept and theories in Biology.

2.1.2 Analyze problems, apply both knowledge and skills, and properly use equipment to solve problems in Biology.

2.1.3 Efficiently search for current topics.

2.1.4 Can correlate the use of Biology to other topics in related field of study.

2.2. Teaching methods

2.2.1. Lecture

2.2.2. Assignment

2.2.3. Discussion

2.3. Evaluation methods

2.3.1. Observe students' behavior and activity in the classroom

2.3.2. Homework, presentation, and discussion

2.3.3. Test, examination

3. Cognitive skills

3.1. The expected learning outcome of TQF framework: Cognitive skills

3.1.1. Students are able to develop the ability to think systematically.

3.1.2. Students are able to solve problems by rational thinking.

3.1.3. Search, interpret and evaluate information technology to solve problem creatively and making decision effectively.

3.2 Teaching methods

3.2.1 Discussion

3.2.2 Classroom activities

3.2.3 Assignment

3.3 Evaluation methods

3.3.1 Results of the activities assigned

3.3.2 Observe the expressions of the students' intellectual skills in all activities

3.3.3 Test/Quiz

4. Interpersonal skills and responsibility

4.1 The expected learning outcome of TQF framework: Interpersonal skills and responsibility

4.1.1 Students are able to collaborate well with others and have leadership skill.

4.1.2 Students are able to have a responsible for the assignment.

4.1.3 Students are able to adapt to different situations by planning and take the responsibility themselves.

4.2 Teaching methods (Learner - Centered)

4.2.1 Activities

4.2.2 Assignment

4.2.3 Problem solving

4.3 Evaluation methods

4.3.1 Observe the students' behavior and the atmosphere of group work/activities

History, the way of life and sufficiency economy

5. Numerical analysis skills, communication and information technology

5.1 The expected learning outcome of TQF framework: Numerical analysis skills, communication and information technology

5.1.1 Students are able to improve skills in data collection, presentation by using appropriate information.

5.1.2 Students are able to improve skills in communication technology in both spoken and written.

5.1.3 Students are able to improve skills in using English or other language to search for information.

5.1.4 Students are able to information technology to search efficiently.

5.2 Teaching methods

5.2.1 Use the computer to search information and present the obtained information in class.

5.2.2 Communication and send homework via e-mail

5.3 Evaluation methods

5.3.1 Homework

5.3.3 Class presentations or activities

Section 5

Lesson Plans and Assessments

1. Lesson plans (100% online)

Week	Topic	Hours/ Instructor	The purpose of teaching	Activities	Instruction media	Learning Outcomes				
						1	2	3	4	5
1	- Classroom commitment - Introduction: Who speaks English?	2 hours/ Miss Sirinee Jirajessada	-Be able to tell the classroom agreement. - Be able to pronounce the word correctly, use the vocab in the sentence, tell the meaning and answer the questions.	- Make an agreement and commitment with students.	Course Syllabus, handouts	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1

Week	Topic	Hours/ Instructor	The purpose of teaching	Activities	Instruction media	Learning Outcomes				
						1	2	3	4	5
2	Listening comprehension and speaking	2 hours/ Miss Sirinee Jirajessada	- Be able to pronounce the word correctly, use the vocab in the sentence, tell the meaning and answer the questions.	Lecture, assignment, Exercise	Handouts, worksheet, homework, video clip					
3-4	Reading comprehension	4 hours/ Miss Sirinee Jirajessada	- Be able to tell the meaning of vocabulary, and answer the questions.	Lecture, assignment, Exercise	Handouts, worksheet, homework	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1
5-6	Sentences and Grammars	4 hours/ Miss Sirinee Jirajessada	-Be able to use correct grammars in sentences. -Be able to tell the meaning of vocabulary -Be able to use the vocab in the sentence, and answer the questions.	Lecture, class activities, assignment , Exercise	Handouts, worksheet, homework	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1
7	- How to read scientific articles? - Anatomy of Scientific articles	2 hours/ Miss Sirinee Jirajessada	- Be able to tell the step of reading the scientific article, tell the anatomy of scientific article, tell	Lecture, class activities, assignment, Exercise	Handouts, worksheet, homework	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1

Week	Topic	Hours/ Instructor	The purpose of teaching	Activities	Instruction media	Learning Outcomes				
						1	2	3	4	5
			the meaning of vocabulary and answer the questions.							
8 Mid-term Examination										
9-10	- Anatomy of Scientific articles (cont.)	4 hours/ Miss Sirinee Jirajessada	-Be able to tell the anatomy of scientific article, tell the meaning of vocabulary and answer the questions.	Lecture, class activities, assignment, Exercise	Handouts, worksheet, homework	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1
11-13	Writing manuscript - The topic of the research. - The objective(s) of the research. - Abstract	4 hours/ Miss Sirinee Jirajessada	-Be able to construct sentences in English. -Be able to tell the meaning of vocabulary, use the vocab in the sentence, and answer the questions.	Lecture, class activities, assignment, Exercise	Handouts, worksheet, homework	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1
14-15	- Presentation Slide preparation - Presentation	4 hours/ Miss Sirinee Jirajessada	-Be able to communicate in English by speaking and pronouncing the words in sentences correctly.	Lecture, class activities, assignment, Exercise	Handouts, worksheet, homework, Presentation	● 1.3	● 2.1	● 3.1	● 4.3	● 5.1
16 Final Examination										

Note : Learning Outcomes

1 = Ethics

2 = Knowledge

3 = Cognitive skills

4 = Interpersonal skills and responsibility

5 = Numerical analysis skills, communication and information technology

2. **Assessment**			
Learning outcomes	**Assessment methods**	**Week**	**Percentile**
1.3 , 2.1	Assessment from homework and presentation	1 - 15	30%
1.3 , 2.1	Mid-term examination	Midterm	30%
1.3 , 2.1	Final examination	Final	30%
1.3 , 2.1, 3.1, 4.3, 5.1	Class participation	1 - 15	10%
		Total	**100%**

Section 6

Teaching Resources

1. Handouts

Handouts : English for Biology by Miss Sirinee Jirajessada, Faculty of Sciences. Buriram Rajabhat University.

2. Text books

กันยารัตน์ เกตุขำ. 2562. **ภาษาอังกฤษเพื่อการเขียนงานวิจัย**. โรงพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย: กรุงเทพมหานคร.

วิทย์ เที่ยงบูรณธรรม. 2016. **พจนานุกรมอังกฤษ-ไทย ฉบับทันสมัยและสมบูรณ์ที่สุด : SE-ED's Modern English-Thai Dictionary (Complete & Updated) Super-Mini Edition**. Se-Ed: กรุงเทพมหานคร.

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Caroline Banks and Tom Rowe. 1990. **Reading in English 1 The day in mountain moved**. New Jersey: Prentice Hall Regents.

Moi Ho, Tan, 2017. **Biologi: Module & More**. Penerbitan Pelangi Sdn. Selangor, Malaysia.

Ling, You Li, SK, Chia, and GS, Yu. 2017. **Biologi: Hots Mastery**. Cemerlang Publications. Selangor, Malaysia.

Raymond Murphy. 1998. **Essential Grammar In Use**. (2nd Edition). United Kingdom: Cambridge University Press.

Reece, J. B., Urry, L. A., and Cain M. L. 2011. **Cambell Biology.** (9th Edition). San Francisco: Pearson Education.

Thanu Teauratanagul. 2007. **English for Science and Technology**. Chulalongkorn University Press: Bangkok.

2. Documents, resources and data suggested 2.1. BRU Library 2.2. Journal: International Journal of Selection and Assessment 2.3. Website: http://www.sciencedirect.com 2.4. Website: http://www.pubmed.com 2.5. Website: http://www.masteringbiology.com

Section 7

Evaluation of Improvement & Course Operation

1. Strategic course evaluation by students Student's opinions on activities and course
2. Strategic assessment of teaching Evaluate teaching performance and students' achievement by using an assessment form.
3. Teaching improvement To be updated next semester.

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(Miss Sirinee Jirajessada)

Lecturer

Report : May 5th, 2024