Course Name	: **General Biology Laboratory II (SCBE 104) 1 (0-3-1)**		
Lecture	: Tuesday 08:30 - 11:30		
Semester	: Semester 2		
Room	: SC3-308	Google class code:	cy73cwge

Course Description

This course is a continuation of SCBE102. It emphasizes on organisms, biodiversity of plants and animals, animal system and function, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels. Laboratory exercises include microscope observations and dissections to reinforce topics discussed in lecture.

Course Learning Outcomes (CLO)

After completion of this course, the student will demonstrate basic knowledge in each of the following categories:

1. Characteristics of the phyla in the kingdoms Monera, Protista, Fungi, Plantae, and Animalia;
2. Comparative plant anatomy and physiology;
3. Comparative animal anatomy and physiology;
4. Distinguish organisms of different classes and kingdoms.

Teaching

Teaching will be in the classroom with interacting perspectives. A Campbell textbook is recommended but not required. Course content will follow the recommended textbook.

All practical laboratory works fit the lecture topics by Campbell text.

Laboratory assessment

The laboratory assessment is divided into 4 assessment throughout the semester. Each assessment consisted of 30 questions (15%). Students have only 30 seconds to answer each question. The questions in each assessment come from the lab activities prior to each assessment.

Evaluation

1. Lab attendants 20%
2. Lab reports 20%
3. Lab assessment 1-4 (15% x 4) 60%

Total percentage of evaluation	0-49	50-54	55-59	60-64	65-69	70-74	75-79	80-100
Grade	F	D	D+	C	C+	B	B+	A

Students will be evaluated from their total score (out of 100%). Grading system is A, B^+, B, C^+, C, D+, D and F.

Course coordinator:

PK - Dr. Pahol Kosiyachinda

Week	Date	Topic	Lecturer
1	13 Jan	Orientation	Pahol
2	14 Jan	Diversity of prokaryotes (Make-up: 13:00-16:00)	Pahol
3	20 Jan	Diversity of protist and fungi	Pahol
4	27 Jan	Diversity of plants	Pahol
5	3 Feb	Lab assessment 1	Pahol
6	10 Feb	Diversity of invertebrates	Pahol
7	17 Feb	Diversity of vertebrates	Napat/Pahol
8	24 Feb	Lab assessment 2	Pahol
9	3 Mar	Midterm Examination Week	
10	10 Mar	Animal development 1	Alisa/Pahol
11	17 Mar	Animal development 2	Alisa/Pahol
12	24 Mar	Lab assessment 3	Pahol
13	31 Mar	Circulatory and respiratory system	Pahol
14	1 Apr	Nervous system (Make-up: 13:00-16:00)	Pahol
15	21 Apr	Lab assessment 4	Pahol
16	28 Apr	Final Examination Week	

References:

Mader S. and Windelspect M. (2022) *Biology.* 14th Ed. McGraw Hill Education, New York, USA.

Lecturers:

AD - Dr. Alisa Damnernsawad
NP – Dr. Napat Ratnarathorn
PK - Dr. Pahol Kosiyachinda

Laboratory technician:

WW - Ms. Wanrada Wangruangklang

TA

WV- Worasak Viwatsukseri