

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:	qa6cvy4

Course coordinator: **Dr. Pahol Kosiyachinda**

Course Description

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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

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

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

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

Week	Date	Topic	Lecturer
1	10 Jan	Orientation	Pahol
2	17 Jan	Diversity of prokaryotes	Pahol
3	24 Jan	Diversity of protist and fungi	Pahol
4	31 Jan	Diversity of plants	Pahol
5	7 Feb	Lab assessment 1	Pahol
6	14 Feb	Diversity of invertebrates	Napat/Pahol
7	21 Feb	Diversity of vertebrates	Napat/Pahol
8	28 Feb	Lab assessment 2	Pahol
9	14 Mar	Midterm Examination	Pahol
10	21 Mar	Animal development 1	Alisa/Pahol
11	28 Mar	Animal development 2	Alisa/Pahol
12	4 Apr	Lab assessment 3	Pahol
13	11 Apr	Nervous system	Napat/Pahol
14	18 Apr	Circulatory and respiratory system	Napat/Pahol
15	25 Apr	Lab assessment 4	Pahol
16	2 May	Final Examination	Pahol

References:

Campbell, N.A., Reece, Jane B., Morgan, Judith G., Carter, M. E.B. 2007 Investigating Biology Lab Manual (6th Edition)

Course coordinator:

PK - Dr. Pahol Kosiyachinda

Lecturers:

AD - Dr. Alisa Damnernsawad

NP – Dr. Napat Ratnarathorn

PK - Dr. Pahol Kosiyachinda

Laboratory technician:

Ms. Suchada Geawduanglek