

## SCBE202- General Zoology Laboratory 1 (0-3-1)

### 1. Subject

SCBE 202      General Zoology Laboratory

### 2. Credit

1 (0-3-1)

### 3. Instructor

- 1) Lect. Dr. Warut Siriwut\*
- 2) Lect. Dr. Napat Ratnarathorn
- 3) Lect. Assist. Prof. Dr. Chalita Kongrit
- 4) Lect. Assist. Prof. Dr. Ekgachai Jiratthitikul

\*Course coordinator – contact : Room SC2-310 ; warut.sir@mahidol.edu

**Lab assistant:** MDL staff

### 4. Semester/Academic Year

Summer / 2021

### 5. Pre-requisite & Co-requisite

SCBE 201 General Zoology

### 7. Location

Mahidol University, Salaya and Phyathai Campus

### 8. Course description

Laboratory exercises in morphology and diversity of metazoan organism.

### 9. Total hours

Lecture	Extra-curriculum activity	Laboratory	Self-study
-	-	33	11

### 10. Objectives

- 1) Justify key diagnosis for classification hypothesis in each animal group
- 2) Obtain the basic technique in anatomical dissection for morphological study
- 3) Describe morphological feature of each animal group in associated with functional mechanism

## Course syllabus

Time Laboratory: Tuesday, Thursday 9.00-12.00  
 Room MDL - SC3 Building, Mahidol University, Salaya Campus **SC3-308**  
 N500 - N Building, Faculty of Science, Mahidol University, Phayathai Campus

Class	Date	Topic	Lect. & Lab technician	Room
1	16 June 2022	Diversity of invertebrates I (Introduction)	Warut/ Ekgachai/MDL	MDL (Salaya)
2	21 June 2022	Diversity of invertebrates II (Worms /Molluscs)	Warut/ Ekgachai/MDL	MDL (Salaya)
3	23 June 2022	Morpological structure of invertebrates II (Worms/Molluscs)	Warut/ Ekgachai/MDL	MDL (Salaya)
4	30 June 2022	Diversity of invertebrates III (Arthropods/Echinoderms)	Warut/ Ekgachai/MDL	MDL (Salaya)
5-6	1-2 July 2022	Invertebrate ecology and behaviour	Warut/ Ekgachai	Field excursion**
7	5 July 2022	Morpological structure of invertebrates III (Arthropods)	Warut/ Ekgachai/MDL	MDL (Salaya)
8	7 July 2022	Vertebrate diversity and morphology: How to classify animals from external morphology?	Napat/ Chalita	N500 (Phyathai)
9	12 July 2022	Vertebrate ecology and behaviour	Napat/ Chalita	Field excursion**
10	19 July 2022	Vertebrate structure and anatomy: Dissected specimens observation	Napat/ Chalita	N500 (Phyathai)
11	21 July 2022	Field trip presentation	Napat/Chalita	N500 (Phyathai)

Government holidays

- Wednesday, 13 July 2022 -Asarnha Bucha Day
- Thursday, 14 July 2022 Buddhist Lent Day

### Evaluation

<b>TQF</b>	<b>Evaluation Method</b>	<b>Week</b>	<b>Proportion</b>
1	- Attendance - Pretest/posttest	1-11	33 %
2.	- Laboratory report	1-5, 7-10	55 %
3.	- Presentation	6, 11	12 %

### References

- Miller, SA, and Harvey JP. (2016). Zoology. 10th edition. McGraw Hill. 641 pp.
- Hickman, CP, Jr., Roberts, LS, Keen, SL., Eisenhour, DJ., Larson, A. and I Anson, H. (2014).  
Integrated Principled of Zoology. 16th edition. McGraw Hill Education. pp. 823.
- Pechenik, J.A. (1996). Biology of the invertebrates (3rd ed.). Wm.C. Brown Publishers.
- Ruppert, E.E., R.S. Fox, and R.D. Barnes. (2004). Invertebrate Zoology (7th ed.). Brooks/Col