

## 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 Siritwut\*
- 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 / 2022

### 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

Day/time: Monday, Wednesday and Friday 13.00-16.00

Room MDL - SC3-308 (Salaya Campus)

N500 - (Phayathai Campus)

<b>Class</b>	<b>Date</b>	<b>Topic</b>	<b>Lect. &amp; Lab technician</b>	<b>Room</b>
1	21 June 2023	Diversity of invertebrates I (Introduction)	Warut/ Ekgachai/MDL	MDL (Salaya)
2	23 June 2023	Diversity of invertebrates II (worms /molluscs)	Warut/ Ekgachai/MDL	MDL (Salaya)
3	3 July 2023	Morphological structure of invertebrate II (worms/molluscs)	Warut/ Ekgachai/MDL	MDL (Salaya)
4	7 July 2023	Diversity of invertebrates III (Arthropods/Echinoderms)	Warut/ Ekgachai/MDL	MDL (Salaya)
5	10 July 2023	Morphological structure of invertebrate III (arthropods)	Warut/ Ekgachai/MDL	MDL (Salaya)
6	14 July 2023	Vertebrate diversity and morphology: How to classify animals from external morphology?	Napat/ Chalita	N500 (Phyathai)
7-8	15-16 July 2023	Field excursion: Invertebrate behaviour and ecology	Warut/ Ekgachai	***
9	17 July 2023	Vertebrate morphology: Integument	Napat/ Chalita	N500 (Phyathai)
10	19 July 2023	Vertebrate structure and anatomy: Dissected specimen observation	Napat/ Chalita	N500 (Phyathai)
	26 July 2023	Final examination		

### Evaluation

<b>TQF</b>	<b>Evaluation Method</b>	<b>Class</b>	<b>Proportion</b>
1	Attendance Pretest/posttest	1-10	20 %
2.	Laboratory report	1-6, 9-10	32 %
3.	Final exam	1-6, 9-10	24 %
4.	Field activity (invertebrates)	7-8	12 %
5.	Miniproject (vertebrates)	6, 9-10	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