

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 / 2023

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)

Class	Date	Topic	Lect. & Lab technician	Room
1	20 June 2024	Diversity of invertebrates I (Introduction)	Warut/ Ekgachai/MDL	MDL (Salaya)
2	25 June 2024	Diversity of invertebrates II (worms /molluscs)	Warut/ Ekgachai/MDL	MDL (Salaya)
3	27 June 2024	Morphological structure of invertebrate II (worms/molluscs)	Warut/ Ekgachai/MDL	MDL (Salaya)
4	4 July 2024	Diversity of invertebrates III (Arthropods/Echinoderms)	Warut/ Ekgachai/MDL	MDL (Salaya)
5	9 July 2024	Morphological structure of invertebrate III (arthropods)	Warut/ Ekgachai/MDL	MDL (Salaya)
6	11 July 2024	Vertebrate diversity and morphology: How to classify animals from external morphology?	Napat/ Chalita	N500 (Phyathai)
7-8	13-14 July 2024	Field excursion: Invertebrate behaviour and ecology	Warut/ Ekgachai	***
9	16 July 2024	Vertebrate morphology: Integument	Napat/ Chalita	N500 (Phyathai)
10	18 July 2024	Vertebrate structure and anatomy: Dissected specimen observation	Napat/ Chalita	N500 (Phyathai)
	19 July 2024	Final examination		

Evaluation

TQF	Evaluation Method	Class	Proportion
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.	Mini project (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