

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: TA

4. Semester/Academic Year

Summer / 2024

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: Monday, Tuesday, Wednesday and Thursday / week Times: 09.00-12.00 / 13.00-16.00

Room SC2-340 (Salaya Campus)
 N500 - (Phayathai Campus)

Class	Date	Topic	Lect. & Lab technician	Room
1	17 June 2025 (morning)	Diversity of invertebrates I (Introduction)	Warut/ TA	SC2-342 (Salaya)
2	17 June 2025 (afternoon)	Diversity of invertebrates II (worms /molluscs)	Warut/ Ekgachai/ TA	SC2-342 (Salaya)
3	19 June 2025	Morphological structure of invertebrate II (worms/molluscs)	Warut/ TA	SC2-342 (Salaya)
4	23 June 2025 (afternoon)	Diversity of invertebrates III (Arthropods/Echinoderms)	Warut/ TA	SC2-342 (Salaya)
5	25 June 2025 (afternoon)	Morphological structure of invertebrate III (arthropods)	Warut/ Ekgachai/ TA	SC2-342 (Salaya)
6	30 June 2025 (afternoon)	Vertebrate diversity and morphology: How to classify animals from external morphology?	Napat/ Chalita	N500 (Phyathai)
7	8 July 2025	Vertebrate morphology: Integument	Napat/ Chalita	N500 (Phyathai)
8-9	**10-11** July 2025	Field excursion: animal behaviour and ecology	Warut/ Ekgachai/ TA	*TBA
10	15 July 2025	Vertebrate structure and anatomy: Dissected specimen observation	Napat/ Chalita	N500 (Phyathai)
	17 July 2025	Final lab examination	Warut	TBA

Note: 3 June – Her Majesty Queen Suthida Bajrasudhabimalalakshana's Birthday
 10 July – Asanha Bucha Day
 11 July – Buddhist Lent Day

Evaluation

TQF	Evaluation Method	Class	Proportion
1	Attendance Active participation	1-10	20 %
2.	Laboratory report	1-7, 10	40 %
3.	Final exam	1-7, 10	25 %
4.	Field activity	8-9	15 %

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 Principles 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/Cole