

## 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.ac.th

**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 (SCBE202)

Day: Tuesday, Thursday and Friday / week    Times: 09.00-12.00 / 13.00-16.00

Room    SC2-342 (Salaya Campus)

          N500 - (Phayathai Campus)

Class	Date	Topic	Lect. & Lab technician	Room
1	11 June 2025 (morning)	Diversity of invertebrates I (Introduction)	Warut/ TA	SC2-342 (Salaya)
2	16 June 2025 (morning)	Diversity of invertebrates II (worms /molluscs)	Warut/ Ekgachai/ TA	SC2-342 (Salaya)
3	16 June 2025 (afternoon)	Morphological structure of invertebrate II (worms/molluscs)	Warut/ TA	SC2-342 (Salaya)
4	25 June 2025 (morning)	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	XX July 2025 (afternoon)	Vertebrate diversity and morphology: How to classify animals from external morphology?	Napat/ Chalita/TA	N500 (Phyathai)
7-8	**4-5** July 2025	Field excursion: animal behaviour and ecology	Warut/ Ekgachai/ TA	*TBA
9	10 July 2025 (morning)	Vertebrate morphology: Integument	Napat/ Chalita/TA	N500 (Phyathai)
10	10 July 2025 (afternoon)	Vertebrate structure and anatomy: Dissected specimen observation	Napat/ Chalita/TA	N500 (Phyathai)
	21 July 2025	Final lab examination	Warut	TBA

**Note:**    1 June 2026 – Substitution Day - Visakha Bucha Day  
           3 June 2026 – H.M Queen Suthida Bajrasudhabimalalakshana's Birthday  
           29 July 2026 – Asanha Bucha Day  
           30 July 2026 – Buddhist Lent Day

### Evaluation

TQF	Evaluation Method	Class	Proportion
1	Attendance Active participation	1-10	20 %
2.	Laboratory report	1-6, 9-10	40 %
3.	Final exam	1-6, 9-10	25 %
4.	Field activity	7-8	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