SCBE201 – General Zoology 3 (3-0-6)

1. Subject

SCBE 201 General Zoology

2. Credit

3 (3-0-6)

3. Instructor

Lect. Dr. Warut Siriwut*

Lect. Dr. Napat Ratnarathorn

Lect. Assist. Prof. Dr. Chalita Kongrit

Lect. Assoc. Prof. Dr. Ekgachai Jiratthitikul

*Course coordinator – contact: Room SC2-310 (Salaya) ; email- warut.sir@mahidol.edu

4. Semester/Academic Year

Summer / 2024

5. Pre-requisite & Co-requisite

SCBE 202 General Zoology Laboratory

7. Location

Mahidol University, Salaya Campus

8. Course description

Morphology, physiology, diversity, ecology and adaptive evolution of metazoan organism (animals)

9. Total hours

Lecture	Extra-curriculum activity	Laboratory	Self-study
45 (onsite / online)	-	-	90

10. **Objectives**

1) Explain the fundamental feature of animals being under biological concept
2) Explain evolutionary history of animal
3) Classify important diagnosis of each animal group
4) Explain significance and application in associated with animal diversity

Course syllabus

Lecture day: Monday, Wednesday, and Friday Times: 9.00-12.00 / 13.00-16.00
Room: Salaya (SC2-153), Phayathai (N516) Google classroom code:

Class	Date	Topic	Lecturer	Room
1	4 June 2025 (morning)	Introduction: origin and structural form of animals	Warut	SC2-153
2	4 June 2025 (afternoon)	Cell structure and development, tissue formation, and basic physiology in animals I	Warut	SC2-153
3	6 June 2025	Basic physiology and organ systems in animals II	Napat	SC2-153
4	9 June 2025	Ecology and adaptive mechanism of animals	Warut	SC2-153
5	11 June 2025	Early matazoa: animal-like protists, sponges and cnidarians	Warut	SC2-153
6	13 June 2025	Early eumetazoa: worms (Nematodes/ Platyhelminthes/ Annelids)	Warut	SC2-153
7	16 June 2025	Phylum Mollusca	Ekgachai	SC2-153
	20 June 2025	Examination I (class 1-7)	Warut	TBA
8	23 June 2025	Ecdysozoa: animals with jointed appendages I	Warut	SC2-153
9	25 June 2025	Ecdysozoa: animals with jointed appendages II	Ekgachai	SC2-153
10	27 June 2025	Deuterostomes: Echinoderms	Warut	SC2-153
11	30 June 2025	Deuterostomes: Chordates (Fishes and Amphibians)	Napat	N516 (Phyathai)
12	2 July 2025	Deuterostomes: Chordates (Reptiles and Aves)	Napat	N516 (Phyathai)
13	7 July 2025	Deuterostomes: Chordates (Mammals)	Chalita	SC2-153
14	9 July 2025 (Morning)	The loss of animal diversity: causes and consequences	Warut	SC2-153
15	15 July 2025	Field trip discussion and summary	Warut, Ekgachai, Chalita, Napat	SC2-153
	16 July 2025	Examination II (class 9-15)	Warut	TBA

Evaluation

TQF	Evaluation Method	Week	Proportion
1	- Class attendance / participation - Quiz and assignment	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	60 % (4%/topic)
3	- Examination I and II	1-15	40 %

Reference

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