

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. Assist. Prof. Dr. Ekgachai Jiratthitikul

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4. Semester/Academic Year

Summer / 2021

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

Class	Date	Topic	Lecturer	Online platform
1	31 May 2021	Introduction: origin of animal diversity	Warut	
2	2 June 2021	Basic physiology and organ systems in animals I	Napat	
3	4 June 2021	Basic physiology and organ systems in animals II	Warut	
4	7 June 2021	Ecology and adaptive mechanism of animals	Warut	
5	9 June 2021	Early metazoa: animal-like protists, sponges and cnidarians	Warut	
6	11 June 2021	Early eumetazoa: worms (Nematodes/ Platyhelminthes/ Annelids)	Warut	
7	14 June 2021	Phylum Mollusca	Ekgachai	
		Examination I	Warut	
9	21 June 2021	Ecdysozoa: animals with jointed appendages I	Warut	
10	23 June 2021	Ecdysozoa: animals with jointed appendages II	Ekgachai	
11	25 June 2021	Deuterostomes: Echinoderms	Warut	
12	28 June 2021	Deuterostomes: Chordates (Fish and its relatives)	Napat	
13	30 June 2021	Deuterostomes: Chordates (Amphibians/ Reptilians)	Napat	
14	2 July 2021	Deuterostomes: Chordates (Mammals)	Chalita	
15	5 July 2021	The loss of animal diversity: causes and consequences	Warut	
	12 July 2021	Examination II	Warut	

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 %
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