

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

Room: SC1- 151, Salaya Campus

Class	Date	Topic	Lecturer	Online platform for Q/A session (optional)
1	6 June 2022	Introduction: origin of animal diversity	Warut	Google classroom/WebEx
2	8 June 2022	Basic physiology and organ systems in animals I	Warut	Google classroom/WebEx
3	10 June 2022	Basic physiology and organ systems in animals II	Napat	Google classroom/WebEx
4	13 June 2022	Ecology and adaptive mechanism of animals	Warut	Google classroom/WebEx
5	15 June 2022	Early metazoa: animal-like protists, sponges and cnidarians	Warut	Google classroom/WebEx
6	17 June 2022	Early eumetazoa: worms (Nematodes/ Platyhelminthes/ Annelids)	Warut	Google classroom/WebEx
7	20 June 2022	Phylum Mollusca	Ekgachai	Google classroom/WebEx
	24 June 2022	Examination I(class 1-7)	Warut	
8	27 June 2022	Ecdysozoa: animals with jointed appendages I	Warut	Google classroom/WebEx
9	29 June 2022	Ecdysozoa: animals with jointed appendages II	Ekgachai	Google classroom/WebEx
10	1 July 2022	Deuterostomes: Echinoderms	Warut	Google classroom/WebEx
11	4 July 2022	Deuterostomes: Chordates (Fishes and Amphibians)	Napat	Google classroom/WebEx
12	6 July 2022	Deuterostomes: Chordates (Reptiles and Aves)	Napat	Google classroom/WebEx
13	8 July 2022	Deuterostomes: Chordates (Mammals)	Chalita	Google classroom/WebEx
14	11 July 2022	The loss of animal diversity: causes and consequences	Warut	Google classroom/WebEx
15	18 July 2022	Group discussion and summary	Warut, Ekgachai, Chalita, Napat	Google classroom/WebEx
	25 July 2022	Examination II (class 9-15)	Warut	

Government holidays

- Wednesday, 13 July 2022 -Asarnha Bucha Day
- Thursday, 14 July 2022 Buddhist Lent Day

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