

## 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

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

### 4. Semester/Academic Year

Summer / 2022

### 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 (SC1-161)**, Phayathai (N516)

Google classroom code: e6qwuz

Class	Date	Topic	Lecturer	Room
1	12 June 2023	Introduction: origin and structural form of animals	Warut	SC1-161
2	14 June 2023	Basic physiology and organ systems in animals I	Warut	SC1-161
3	16 June 2023	Basic physiology and organ systems in animals II	Napat	SC1-161
4	19 June 2023	Ecology and adaptive mechanism of animals	Warut	SC1-161
5	21 June 2023	Early metazoa: animal-like protists, sponges and cnidarians	Warut	SC1-161
6	23 June 2023	Early eumetazoa: worms (Nematodes/ Platyhelminthes/ Annelids)	Warut	SC1-161
7	3 July 2023	Phylum Mollusca	Ekgachai	SC1-161
	5 June 2023	Examination I (class 1-7)	Warut	TBA
8	7 July 2023	Ecdysozoa: animals with jointed appendages I	Warut	SC1-161
9	10 July 2023	Ecdysozoa: animals with jointed appendages II	Ekgachai	SC1-161
10	12 July 2023	Deuterostomes: Echinoderms	Warut	SC1-161
11	14 July 2023	Deuterostomes: Chordates (Fishes and Amphibians)	Napat	N516
12	17 July 2023	Deuterostomes: Chordates (Reptiles and Aves)	Napat	N516
13	19 July 2023	Deuterostomes: Chordates (Mammals)	Chalita	N516
14	21 July 2023 (Morning)	The loss of animal diversity: causes and consequences	Warut	SC1-161
15	21 July 2023 (Afternoon)	Group discussion and summary	Warut, Ekgachai, Chalita, Napat	SC1-161
	26 July 2023	Examination II (class 9-15)	Warut	TBA

## Evaluation

<b>TQF</b>	<b>Evaluation Method</b>	<b>Week</b>	<b>Proportion</b>
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 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