



Course Syllabus (Academic Year 2020)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

- Course No. and Title:** KACB 216 Zoology Laboratory
Credit (study hours): 1 (0-3-1)
- Program Name:** Bachelor of Science in Conservation Biology
- Course Module:** Gen.Edu. course Core course Elective course
Pre/co-requisite: KACB215 Zoology
- Semester:** 1stsemester 2ndsemester 3rdsemester
- Class Schedule & Venue:** 13:00-16:00, Room L-201, Mahidol University, Kanchanaburi Campus
- Course Coordinator:** Lect. Paiphan Paejaroen
Tel. 081-2557694, Email: paiphan.pae@mahidol.edu

7. Course Description:

ปฏิบัติการเกี่ยวกับการศึกษาสัตวฐานวิทยา กายวิภาค สรีรวิทยา การสืบพันธุ์และพัฒนาการ อนุกรมวิธาน และความหลากหลายของสัตว์ชนิดต่างๆ

Laboratory exercises in morphology, anatomy, physiology, reproduction and development, taxonomy, and the diversity of animals.

8. Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			PLOs
		Specific	Generic	Knowledge	
8.1	Understand the morphology, anatomy, physiology and reproduction of the representative animals				1, 5, 6, 7
8.2	Explain the main characteristics and evolution of the representative animals				1, 5, 6, 7

9. Class Instructor List

9.1	Paiphan Paejaroen	081-255-7694	paiphan.pae@mahidol.edu
9.2	Supatra Chunchob	085-098-9419	supatra.chn@mahidol.edu
9.3	Piyathip Piyapan	089-780-9410	Piyathip.piy@mahidol.edu
9.4	Weerachon Sawangproh	093-339-0526	weerachan.saw@mahidol.edu
9.5	Chanpen Saralamba	087-509-0665	chanpen.sar@mahidol.edu
9.6	Rapee Boonplueang	092-259-7461	rapee.boon@mahidol.ac.th

10. Course Outline

Week	Date	Contents	CLOs	Teaching & Learning	Instructor's Names	Lab Preparation
1	21 Jan 21	Animal characteristics	1, 2	Lab practice/ Quiz/ Report	Paiphan Thanaphat	Thanaphat
2	28 Jan 21	Reproductive cells and organs	1	Lab practice/ Quiz/ Report	Paiphan Thanaphat	Thanaphat
3	4 Feb 21	Development of sea urchin, frog, chick and human	1	Lab practice/ Quiz/ Report	Paiphan Thanaphat	Thanaphat
4	11 Feb 21	Animal movement and Skeletal systems	1	Lab practice/ Quiz/ Report	Piyathip Thanaphat	Thanaphat
5	18 Feb 21	Cardioactivity	1	Lab practice/ Quiz/ Report	Supatra Paiphan Thanaphat	Thanaphat
6	25 Feb 21	Nervous system and sense organs Endocrine system	1	Lab practice/ Quiz/ Report	Rapee Paiphan Thanaphat	Thanaphat
7	4 Mar 21	Immunity Homeostasis Digestion and nutrition	1	Lab practice/ Quiz/ Report	Supatra Thanaphat	Thanaphat
8	11 Mar 21	Protozoa	1, 2	Lab practice/ Quiz/ Report	Paiphan Thanaphat	Thanaphat
9	Mid-term Examination (15-19 March 2021)					
10	25 Mar 21	Sponges and Cnidarian	1, 2	Lab practice/ Quiz/ Report	Chanpen Paiphan Thanaphat	Thanaphat
11	1 Apr 21	Platyhelminthes, Nematode, and Rotifer	1, 2	Lab practice/ Quiz/ Report	Supatra Thnanaphat	Thanaphat
12	8 Apr 21	Molluscs and Annelids Dissection of mussels and squids	1, 2	Lab practice/ Quiz/ Report	Weerachon Thanaphat	Thanaphat

13	22 Apr 21	Arthropods Echinoderms	1, 2	Lab practice/ Quiz/ Report	Paiphan Thanaphat	Thanaphat
14	29 Apr 21	Comparative study of chordates Representative specimens: Fishes, frogs and chicken	1, 2	Lab practice/ Quiz/ Report	Piyathip Thanaphat	Thanaphat
15	Final Examination (3-14 May 2021)					
16						

11. Course Assessment

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution (%)
11.1	Midterm Examination	1-hour exam (other regulations will be announced in the class later)	1, 2	1-8	20
11.2	Final Examination	1-hour exam (other regulations will be announced in the class later)	1, 2	10-15	15
11.3	Laboratory report	Every week	1, 2	1-8, 10-15	55
11.4	Quiz	Every week	1, 2	1-8, 10-15	10
TOTAL					100

*** If the students attend in the class less than 80%, they will be announced to disqualification for the course examination. Thus, the unexpected matters bring to an absence in the class, please contact course coordinator to fill in the application form and attached the evidence of absence.

12. Grading System

Criterion-referenced evaluation

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A	≥ 80 %	B	70 – 74.99%	C	60 – 64.99%	D	50 – 54.99%
B+	75 – 79.99%	C+	65 – 69.99%	D+	55 – 59.99%	F	< 50 %

Norm-referenced evaluation

*If use both criterion and norm-referenced evaluation, please tick two boxes.

13. References

- 13.1 Hickman, CP, Jr., Keen, LS, Eisenhour, DJ, Larson, A, l'Anson, H. (2017). Integrated Principles of Zoology. 17th edition. McGraw-Hill Education. pp. 834.
- 13.2 Hickman, CP, Jr., Roberts, LS, Keen, SL., Eisenhour, DJ, Larson, A., and l'Anson, H. (2014). Integrated Principles of Zoology. 16th edition. McGraw-Hill Education. New York. pp. 823.
- 13.3 Hickman, CP, Jr., Roberts, LS and Larson, A. (2004). Integrated Principles of Zoology. 9th edition. Mosby-Year Book, Inc. pp. 983.
- 13.4 Miller, SA, and Harvey JP. (2010). Zoology. 8th edition. McGraw Hill. 592 pp.
- 13.5 Pechnick, JA. (1996). Biology of the Invertebrates. 3rd edition. WmC Brown Publishers. pp. 554.