



Course Syllabus (Academic Year 2021)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

- Course No. and Title:** KACB 325 Animal Behavior
Credit (study hours): 3 (2-3-5)
- Program Name:** Bachelor of Science in Conservation Biology
- Course Module:** Gen.Edu. course CB core course Elective course
Prerequisite: KACB 214, **Course conditions:** 3rd & 4th year student
- Semester:** 1st semester 2nd semester 3rd semester **Academic Year 2021**
- Class Schedule & Venue:** Thursday: Lect. 09:00-11:00 Lab. 13.00-16.00 by MU Webex Online
- Course Coordinator:** Lect. Chanpen Saralamba Contact No. 087-5090665
Email: chanpen.sar@mahidol.edu

7. Course Description

กระบวนการและกลไกที่เกี่ยวข้องกับการแสดงออกทางพฤติกรรม แรงจูงใจ การเรียนรู้และวิวัฒนาการของพฤติกรรม เพศ การก๊วยพาราฮี และการจับคู่ผสมพันธุ์ พฤติกรรมทางสังคม ปฏิบัติการเกี่ยวกับการศึกษาพฤติกรรมสัตว์ป่าในภาคสนาม Process and mechanism of behavior, motivation, development and learning, sex, courtship, and mating systems, social behavior. Field trip are included.

8. Course Objectives / Course Learning Outcomes (CLOs)

CLOs	Objectives/Course Learning Outcomes (CLOs)	PLOs*
1	To explain the ultimate and the proximate causes of animal behaviors	1,5,6,7
2	To explain the costs and benefits of animal when they display such behaviors	1,5,6,7
3	To create questions, hypotheses, quantify animal behavior into quantitative data and analyze these data	1,4,7
4	To apply the knowledge of animal behavior to conservation perspectives.	4,8

NOTE PLO 1: Analyze biodiversity functions, value, status, trend, and their threats for monitoring and solving biodiversity problems.

PLO 4: Conduct the scientific research to solve the particular problem related to biodiversity conservation.

PLO 5: Apply the information technology for supporting biodiversity conservation management effectively, morally, and ethically.

PLO 6: Apply the appropriate communication to support biodiversity conservation management.

PLO 7 Collaborate with teammates and stakeholders in biodiversity conservation with responsibility, integrity, and respect the rights of them.

PLO 8: Show concern about the ideas of caring both local and global biodiversity.

9. Class Instructor List

10. Course Outline

Week	Date	Topic (Lecture)	Lecturer	Topic (Laboratory)	Team
1	19 Aug 21	Principle & history of animal behavior*	CS	Bibliographic research in Animal behavior and Animal ethic	CS,
2	26 Aug 21	The questions and development of animal behavior*	CS	Developing Ethogram	CS
3	1 Sep 21	The control of behavior: neural mechanism*	CS	Question and Hypothesis	CS
4	8 Sep.21	Homeostasis and time budgets	CS	Type of behavioral Data	CS
5	15 Sep 21	Animal Communication	CS	Recording Method I	CS
6	22 Sep 21	Foraging: how animal get food	CS	Recording Methods II	CS
7	29 Sep 21	Territoriality & Movement: search navigation, migration and dispersal	CS	Research Design/Lab Exam	CS
8	Midterm Exam 4-8 Oct 2021				
9	14 Oct.21	Self-defense: adaptation for survival	CS	Design datasheet and Data collection	CS
10	21 Oct 21	Mating systems and reproductive behavior	CS	Data Analysis	CS
11	28 Oct 21	Nesting and parenting	CS	Individual's Project	CS
12	4 Nov 21	Social behavior	CS	Individual's Project	CS
13	11 Nov 21	Cooperation and kinship	CS	Individual's Project	CS
14	18 Nov 21	Field Trip	CS	Field trip	CS, TK
15	25 Nov 21	Behavior and conservation	CS	Project Presentation/ Lab exam	CS

11. Course Assessment

11.1 Students have to attend/participate the class more than 80%.

If the students attend in the class less than 80%, they will be announced to disqualification for the later course assessment activities. 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.

11.2 Students will get the score for grading from the following course activities;

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution (%)
11.1	Mid-term exam	2- hours exam (other regulations will be announced in the class later)	8.1, 8.2	1-7	25
11.2	Final exam	2-hours exam (other regulations will be announced in the class later)	8.1, 8.2, 8.4	9-15	25
11.3	Assignments	Assignments will be submitted on time		1-7, 9-15	20
11.4	Laboratory exam	1-hours exam (other regulations will be announced in the class later)	8.3	7, 15	10
11.5	Individual's project	1-hours exam (other regulations will be announced in the class later)	8.3	1-7, 9-16	10
11.6	Responsibility and class participation	Evaluation with the responsibility to work on due date (every couple days) and class attendance & participation in the class	8.1-8.4	1-7, 9-16	10
				Total	100

12. Grading System

Criterion-referenced evaluation

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A	≥ 80 %	B	70 – 74.9%	C	60 – 64.9%	D	50 – 54.9%
B+	75 – 79.9%	C+	65 – 69.9%	D+	55 – 59.9%	F	< 50 %

Norm-referenced evaluation

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

13. References

Rubenstein, D.R. & Alcock, J. 2019. Animal Behavior: An Evolutionary approach (11th edition),
Oxford University Press, USA.

Davies, N.B., Krebs, J.R. & West, S. A. 2012. An introduction to behavioral ecology (4th edition).
John Wiley & Sons, West Sussex, UK.

Martin, P. & Bateson, P. 2013. Measuring behavior: an introductory guide (3rd edition). Cambridge
University Press, New York, USA.

Tillberg, C., Breed, M., & Hinners, S. 2007. Field and laboratory exercises in animal behavior.
Academic Press, CA, USA.