

## Time Table for SCBE390: Vertebrate Zoology (Inter)

W	Lesson	Evaluation indicator	Lesson Type	Date	Time 65 hrs.	Location	Room	Instructor
1	Orientation and Diversity of vertebrate	1*	Lecture	Mon, 09 Jan	13:30-15:30	Phayathai		AJ. Napat (NR)
	Group Assignment (Mini project)	2*	Lecture	Mon, 09 Jan	15:30-16:30	Phayathai		AJ. Napat
	Student practice: Preserved specimens	3.1*	Laboratory	Fri, 13 Jan	13:30-15:30	Phayathai		AJ. Napat/Chalita (CK)
2	Basic taxonomy	1*	Lecture	Mon, 16 Jan	13:30-16:30	Salaya		AJ. Warut (WS)
	Natural History Museum of Chulalongkorn Uni.	4*	Visit	Fri, 20 Jan	13:30-16:30	CU museum	-	AJ. NR/CK/WS/PT
3	Tree of life	3.2*	Laboratory	Mon, 23 Jan	13:30-15:30	Phayathai		AJ. NR/CK/WS/PT
	Vertebrate Ecology	1*	Lecture	Fri, 27 Jan	13:30-16:30	Salaya		AJ. Chalita
4	Field technique I	4*	Laboratory	Mon, 30 Jan	13:30-16:30	Salaya	Field	AJ. Chalita/Phakhawat (PT)
	Vertebrate Behaviour	1*	Lecture	Fri, 03 Feb	13:30-16:30	Phayathai		AJ. Phakhawat
5	Discussion: Vertebrate Conservation	3.2*	Lecture (Guest)	Mon, 06 Feb	13:30-16:30	Phayathai		AJ. Chalita/Phakhawat
	Equipment for Dissection	3.1*	Laboratory	Fri, 10 Feb	13:30-15:30	Phayathai		AJ. Napat/Chalita
6	Assignment progress and discussion	2*	Lecture	Mon, 13 Feb	13:30-15:30	Phayathai		AJ. NR/CK/WS/PT
	Fish	1*	Lecture	Fri, 17 Feb	13:30-16:30	Video clip	-	AJ. Jes
7	Fish Dissection	3.3*	Laboratory	Mon, 20 Feb	13:30-16:30	Phayathai		AJ. Napat/Chalita
	Thong-lor Japanese fish market	4*	Visit	Fri, 24 Feb	13:30-15:30	Thong-lor	-	AJ. Napat/Chalita
8	<b>Midterm Lecture Exam</b>		<b>Exam</b>	<b>Mon, 27 Feb</b>	<b>13:30-16:30</b>	<b>Phayathai</b>		<b>AJ. Napat</b>
	Amphibian	5*	Lecture	Fri, 03 Mar	13:30-16:30	Phayathai		AJ. Napat
9	Māgha Pūjā Holiday (No Class)			Mon, 06 Mar				
	Mid-term exam week (No class)			Fri, 10 Mar				
10	Frog Dissection	3.3*	Laboratory	Mon, 13 Mar	13:30-16:30	Phayathai		AJ. Napat/Chalita
	Reptile	5*	Lecture	Fri, 17 Mar	13:30-16:30	Phayathai		AJ. Napat
11	Snake farm, QSMI	4*	Visit	Mon, 20 Mar	13:30-16:30	SF, QSMI	-	AJ. NR/CK/PT
	Snake Dissection	3.3*	Laboratory	Fri, 24 Mar	13:30-16:30	Phayathai		AJ. Napat/Chalita
11	Aves	5*	Lecture	Mon, 27 Mar	13:30-16:30	Salaya		AJ. Philip
	Birds Activity: Bird watching and trapping	4*	Visit	Fri, 31 Mar	13:30-16:30	Salaya	Field	AJ. Philip
12	Chicken Dissection	3.3*	Laboratory	Mon, 03 Apr	13:30-16:30	Phayathai		AJ. Napat/Chalita
	Mammal	5*	Lecture	Fri, 07 Apr	13:30-16:30	Salaya		AJ. Chalita
13	Rat Dissection	3.3*	Laboratory	Mon, 10 Apr	13:30-16:30	Phayathai		AJ. Kittipong
	Songkran Holiday (No Class)			Fri, 14 Apr				
14	Special talk: Mammal-Borne (Zoonotic) Diseases	4*	Lecture (Guest)	Mon, 17 Apr	13:30-16:30	Phayathai		AJ. Kittipong
	Lecture and Lab Review		Laboratory	Fri, 21 Apr	13:30-15:30	Phayathai		AJ. Napat/Chalita
15	<b>Final Lecture Exam</b>		<b>Exam</b>	<b>Mon, 24 Apr</b>	<b>13:30-16:30</b>	<b>Phayathai</b>		<b>AJ. Napat/Chalita</b>
	<b>Lab Exam</b>		<b>Exam</b>	<b>Fri, 28 Apr</b>	<b>13:30-15:30</b>	<b>Phayathai</b>		<b>AJ. Napat/Chalita</b>
16	Group Assignment: Presentation	2*	Lecture	Mon, 01 May	13:30-15:30	Phayathai		AJ. NR/CK/WS/PT

Course Coordinator:	<b>Assist. Prof. Dr. Chalita Kongrit and Dr Napat Ratnarathorn</b> Department of Biology, Faculty of Science, Mahidol University Email: <a href="mailto:Chalita.kon@mahidol.edu">Chalita.kon@mahidol.edu</a> , <a href="mailto:Napat.rat@mahidol.ac.th">Napat.rat@mahidol.ac.th</a>	<b>GRADE</b> (Can be reviewed)	
Score Evaluation:	<u>Exams (71%):</u> - <b>Midterm exam 26% (1*)</b> : Diversity 2%, Taxonomy 6%, Ecology 6%, Behaviour 6%, and Fish 6% - <b>Final exam 24% (5*)</b> : Amphibian 6%, Reptile 6%, Aves 6%, and Mammal 6% - <b>Final lab exam 21% (3.1* and 3.3*) **</b> : <b>Wet Lab - 7 times</b> (3% each)  <u>Others (29%):</u> - <b>Group assignment 9% (2*)</b> : Presentation/Delivery 4%, Product 4%, Teamwork 1% - <b>Pretest 5% (3.3*)</b> : <b>Wet lab - 5 times</b> (1% each) - <b>Lab report/in-class assignment 9% (3.1* – 3.3*)</b> : <b>Wet lab - 9 times</b> (1% each) - <b>Class attendance and participation 6% (4*)</b> (1% each: Visits and Guests)	<b>A</b>	≥80
		<b>B+</b>	75-79
		<b>B</b>	70-74
		<b>C+</b>	65-69
		<b>C</b>	60-64
		<b>D+</b>	55-59
<b>D</b>	50-54		
		<b>F</b>	<50

\*\*Buzzer Spot test (1.5 minutes per question)

## Instructor and Guest Speaker

### Mahidol University

#### Department member

Instructor Name	Unit	Contact
Assoc. Prof. Philip D. Round	Department of Biology, Faculty of Science	Philip.rou@mahidol.ac.th
Assist. Prof. Dr. Chalita Kongrit (Course-co)		Chalita.kon@mahidol.ac.th
Lect. Dr. Warut Siriwut		Warut.sir@mahidol.ac.th
Lect. Dr. Napat Ratnarathorn (Course-co)		Napat.rat@mahidol.ac.th
Lect. Dr. Phakhawat Thaweepworadej		Phakhawat.tha@mahidol.ac.th

#### Other Departments/Faculties

Instructor Name	Unit	Contact
Assist. Prof. Dr. Kittipong Chaisiri	Department of Helminthology, Faculty of Tropical Medicine	Kittipong.cha@mahidol.ac.th

### Other Institutes

Instructor Name	Unit	Contact
Assis. Prof. Dr. Jes Kettratad	Department of Marine Science, Chulalongkorn University	Jes.kettratad@gmail.com

## Teacher Assistants (TA)

	Department of Biology, Faculty of Science	
	Department of Biology, Faculty of Science	

**Instructor Guidance for Exam Questioning (Lecture and Laboratory)**

- Time for students to do the exam **should not exceed** the number showed in the table below (see column: **Time**)
- Paper-based exam
  - No limit in the number of questions
  - No limit for style and type of question in the exams
  - Please separate question and answer sheet
- Final exam for laboratory is the buzzer spot test
  - 1.5 minutes (90 seconds) per question
  - At least, 2 questions per one laboratory (Total 14 questions minimum from 7 laboratory)
  - Answers for the question should be short (generally one-few words or not more than one line)
  - If there are more than 14 students, the numbers of question increase
  - There must be two sub-questions in one question
  - The sub-question number must be alphabetical (A and B)
  - Please use the form provided below for questioning

Midterm exam (Lecture)			Final exam (Lecture)			Final exam (Laboratory)			
Lesson	Score	Time (mins)	Lesson	Score	Time (mins)	Lesson	Score	Time (total mins) 10-14 students	Time (total mins) 15-21 students
Anatomy& Diversity	7%	45	Reptile	7%	60	Preserved Sp.	3%	3 (2Q)	4.5 (3Q)
Taxonomy	7%	45	Aves	7%	60	Equipment	3%	3 (2Q)	4.5 (3Q)
Fish	7%	45	Mammal	7%	60	Fish	3%	3 (2Q)	4.5 (3Q)
Amphibian	7%	45	<b>Total</b>	<b>21%</b>	180	Frog	3%	3 (2Q)	4.5 (3Q)
<b>Total</b>	<b>28%</b>	180				Snake	3%	3 (2Q)	4.5 (3Q)
						Chick	3%	3 (2Q)	4.5 (3Q)
						Rat	3%	3 (2Q)	4.5 (3Q)
						<b>Total</b>	<b>21%</b>	<b>21 (15Q)</b>	<b>31.5 (21Q)</b>

## Question 1

A.

B.

---

## Question 2

A.

B.

---