



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

TQF 4 Specification of Field Training Experience

Section 1 General Information

1. Course Code and Title

In Thai สพวค ๖๗๘ คลินิกปฏิบัติสัตว์สวนสัตว์และสัตว์เลี้ยงชนิดพิเศษ
In English VSCL 678 Clinical Clerkship in Zoo and Exotic Animals

2. Number of Credits

3 (0-9-3)

(Theory 0 hours, Lab/Practice 9 hours, Self-study 3 hours / week)

3. Curriculum and Course Type

3.1 Program of Study Doctor of Veterinary Medicine

3.2 Course Type ☒ Electives

4. Course Coordinator and Advisor of Field Training Experience

4.1 Course Coordinator

4.1.1 Dr. Roschong Boonyarittichaikij Department of Clinical Science and Public Health
Telephone: 2210 email: roschong.boo@mahidol.edu

4.1.2 Dr. Nae Tanpradit Department of Clinical Science and Public Health
Telephone: 2210 email: nae.tan@mahidol.edu

4.1.3 Dr. Podjana Wattananit Department of Clinical Science and Public Health
Telephone: 2210 email: Podjana.wat@mahidol.edu

4.2 Advisor of Field Training Experience

4.2.1 Dr. Roschong Boonyarittichaikij Department of Clinical Science and Public Health
Telephone: 2210 email: roschong.boo@mahidol.edu

4.2.2 Dr. Nae Tanpradit Department of Clinical Science and Public Health
Telephone: 2210 email: nae.tan@mahidol.edu

4.2.3 Dr. Podjana Wattananit Department of Clinical Science and Public Health
Telephone: 2210 email: Podjana.wat@mahidol.edu

4.2.4 Dr. Nawarat Suriyakhun Prasu-Arthon Animal Hospital
Telephone: 024415245 email: nawarat.sur@mahidol.ac.th



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

4.2.5 Dr. Nicharee Income Pasupalan Livestock and Wildlife Hospital
Telephone: 034585101 email: nicharee.inc@mahidol.edu

4.2.5 Dr. Pemika Kaenchan Pasupalan Livestock and Wildlife Hospital
Telephone: 034585101 email: pemika.kae@mahidol.edu

5. Semester/The training experience required in the curriculum

5.1 Semester 1st and 2nd / Class Level or year 6

5.2 Class capacity approximately number of 80 students

6. Pre-requisite

-

7. Co-requisites

-

8. Date of Preparation/Latest Revision of Field Training Experience Specification

24 June 2022

Section 2 Aims and Objectives

1. Field Experience Goals

Students can apply the knowledge of diagnostic and treatment of zoo and exotic animals to clinical practice. Students also improve their skills in management and welfare evaluation of zoo and exotic animals according to the veterinary profession standard.

2. Objectives of Course Development/Revision Field Experience Course

1.2 Course Objectives

This course aims to provide knowledge and abilities as follows:

1. Restraint of zoo and exotic animals for physical examination and further common procedures



2. Analyzing the problem or diagnose the disorder of zoo and exotic animals by history taking, physical examination, and sample collection for laboratory diagnosis according to the veterinary profession standard
3. Practicing the common procedures required for diagnosis and treatment of zoo and exotic animals
4. Basic evaluation of management and welfare of zoo and exotic animals
5. Practicing the veterinary profession in moral and ethical means following the veterinary ethics

2.2 Course-level Learning Outcomes: CLOs

On completion of the course, the students will be able to

1. CLO1 perform safe and proper restraint of zoo and exotic animals for physical examination and further common procedures
2. CLO2 perform history taking, planning the treatment, and recording the patient medical record of the zoo and exotic animals properly
3. CLO3 practicing the necessary skills for the initial medical treatment of zoo and exotic animals properly.
4. CLO4 properly collect the laboratory diagnostic samples for further laboratory diagnosis.
5. CLO5 properly evaluate the management and welfare of zoo and exotic animals.

Section 3 Development of the expected learning outcomes

1. A brief summary of the knowledge or skills expected to develop in students; the course-level expected learning outcomes (CLOs)

On completion of the course, students will be able to:

1. CLO1 perform safe and proper restraint of zoo and exotic animals for physical examination and further common procedures
2. CLO2 perform history taking, planning the treatment, and recording the patient medical record of the zoo and exotic animals properly



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

3. CLO3 practicing the necessary skills for the initial medical treatment of zoo and exotic animals properly.
4. CLO4 properly collect the laboratory diagnostic samples for further laboratory diagnosis.
5. CLO5 properly evaluate the management and welfare of zoo and exotic animals.

2. How to organize learning experiences to develop the knowledge or skills stated in number 1 and how to measure the learning outcomes

CLOs	Teaching and learning experience management	Learning outcomes measurements
CLO1	Practice in real situations and places, Group assignment	Evaluation of practicing participation, Assignment evaluation, Student behavioral observation, Presentation skill evaluation, Practicing examination
CLO2	Practice in real situations and places, Group and individual assignments, and presentation	Evaluation of practicing participation, Punctuality, Assignment evaluation, Student behavioral observation, Presentation skill evaluation, Practicing examination, Oral examination
CLO3	Practice in real situations and places	Evaluation of practicing participation, Student behavioral observation, Practicing examination, Oral examination
CLO4	Practice in real situations and places	Evaluation of practicing participation, Student behavioral evaluation Practice examination



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

CLO5	Practice in real situations and places	Evaluation of practicing participation, Student behavioral observation, Oral examination
------	--	--

Section 4 Description and Implementation

1. Course Description

ทักษะปฏิบัติทางคลินิกในสัตว์สวนสัตว์ สัตว์เลี้ยงชนิดพิเศษ กระต่าย สัตว์ฟันแทะ สัตว์ปีก สัตว์เลื้อยคลาน พฤติกรรม โรคติดเชื้อ โรคไม่ติดเชื้อ ความผิดปกติ การจับบังคับ หัตถการ การเลี้ยง การจัดการ สวัสดิภาพสัตว์ การรักษา และการสื่อสารกับเจ้าของสัตว์

Clinical practice in zoo and exotic animals, rabbit, rodent, avian, reptile, behavior, infectious and non-infectious diseases, restraint, hand skill, husbandry, management, animal welfare, treatment, and client communication

2. Student Activity

- 2.1 Perform duties as assigned by the supervised veterinarians
- 2.2 Practice skills according to the topics specified in the internship notebook.
- 2.3 Analyze the causes and solutions of animal production, diseases, or case studies encountered during the internship.
- 2.4 Learn and practice working with others in the workplace where students take internships.

3. Reports or Assignments

Assignment	Submission date
-Practice Report - Case study report/ including problem solving methods used during the practice -Oral presentation with the abilities to use ICT media	At the end of each clinical practice



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

4. Monitoring of the Student Learning Outcome in Field Training Experience/students' job training at an establishment

- 4.1 Attend the student's presentation
- 4.2 Examine the students' report
- 4.3 Site visit or make phone calls to and inquire about students' information during the internship
- 4.4 Contact directly the mentor veterinarians at the field training places

5. Duties and Responsibilities of the Field Mentor at the Field Training Activities/ a job training

- 5.1 Plan activities for developing students' skills
- 5.2 Provide advice to students about the rules, regulations, practices, and duties of the field-mentor veterinarians.
- 5.3 Participate in the assessment of the training using the criteria as determined by each program

6. Duties and Responsibilities of Advisor /Field Supervisor

- 6.1 Coordinate and participate in the planning for the students' practice with the field-mentor veterinarians of each place
- 6.2 Plan to provide student advisory to assess and give advice on the field practice activities
- 6.3 Evaluate the students after completing the field practice

7. Preparation in Guiding and Assisting Students

- 7.1 Provide clarification of the field practice plan and supporting documents
- 7.2 Assign tasks with clarification of the assignment's details and specify the submission date
- 7.3 Inform students the contact information to approach for advisory or assistance

8. Facilities and Support Needed in the Field Training/ on the Job

- 8.1 Provide students with a secure student accommodation during the field practice
- 8.2 Provide students with meals during the field practices



Section 5 Planning and Preparation

1. Selection of Field experience

- 1.1 It is an establishment related to animal production and processing or the business of producing food of animal origin.
- 1.2 It should be a business/organization that is certified for standardization by government agencies.
- 1.3 It should be located where it is secured and convenient to travel.
- 1.4 There should be a veterinarian or academic supervising the student's internship.

2. Student Preparation

- 2.1 Clarification of the training program and recommending practices that should and should not be made known to students
- 2.2 Assign tasks, clarify the details of the work and the submission deadline
- 2.3 Test/review knowledge on topics necessary for the practice, such as zoonotic diseases, epidemiology, food safety systems and standards, and disease investigation.
- 2.4 Test/review skills needed for students to take the practice, such as sample collecting for laboratory tests and production quality inspection according to the food safety and animal welfare principles.

3. Advisor / Field Supervisor Preparation

Working altogether to determine the objectives expected from the field practice, the learning outcomes that wanted to emphasize, practice guidelines, and assessment methods

4. Preparation of Mentor at field experience places

- 4.1 Clarify the objectives that students should acquire during the field practice to the mentor veterinarians or the field-practice supervisors
- 4.2 Inform the mentor veterinarians or the field-practice supervisors of the establishment of the topics and assessment criteria students should acquire during the field practice
- 4.3 Inform the contact channels/information to approach the course coordinators



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

5. Risk Management

5.1 Select an establishment or a reliable agency located in the area that is convenient for transportation and safe for students to take the field practice

5.2 Arrange a shuttle bus/ transportation for students between the Faculty of Veterinary Science, Mahidol University, and the practice sites.

5.3 Arrange accommodation by coordinating with the responsible personnel of the establishment

5.5 Contact students during the practice through various channels and inform students of the contact information to reach the advisors in case of emergency or acquire assistance

5.6 Liaise with the field mentor veterinarians and field supervisors during the students' field practice

Section 6 Student Assessment

1. Assessment Criteria

Evaluation Method	Weight (Percentage)
Application of knowledge during practice *	18
Medical hand skill evaluation*	12
Clinical Problem-Solving skill*	12
OPD recording and drug prescription skill*	3
Client communication skill*	3
Self-learning ability*	3
Responsibility and punctuality*	3
Teamwork*	3
Participation*	3
Grand round group case presentation	10
Group assignment	10
Individual case presentation	10
Minimum requirement performance	10
Total	100



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

*All methods are in rubric scoring evaluation

2. Student Performance Evaluation Process

1.2 Measurement and Evaluation of learning achievement

A. Formative Assessment

- 1) Assessment of the field practice results
- 2) Assessment from the case study report

B. Summative Assessment

(1) Tool and weight for measurement and evaluation

Learning Outcomes	Evaluation Method*					Weight (%)
	Rubrics Scoring	Group Assignment	Group presentation	Individual case presentation	Minimum req.	
CLO1 perform safe and proper restraint of zoo and exotic animals for physical examination and further common procedures	12	0	0	0	2	14
CLO2 perform history taking, planning the treatment, and recording the patient medical record of the zoo and exotic animals properly	12	5	5	5	2	29
CLO3 practicing the necessary skills for the initial medical	12	5	5	5	2	29



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

treatment of zoo and exotic animals properly.						
CLO4 properly collect the laboratory diagnostic samples for further laboratory diagnosis.	12	0	0	0	2	14
CLO5 properly evaluate the management and welfare of zoo and exotic animals.	12	0	0	0	2	14
Total	60	10	10	10	10	100

(2) Measurement and evaluation

According to the MUVS' measurement and evaluation conditions, either it is the criteria or norm-reference used to assess the students' performance, the assessment results will be assigned as grading symbols: A, B+, B, C+, C, D+, D, and F. Students should receive at least the 'D' grade to pass the course.

(3) Re-examination (if the course allows any.)

In case that students received an 'F' grade, the course coordinator and the program's Teaching and Learning Development Committee should, altogether, agree to allow the students to take the re-examination or extra-course work to pass the course with the following conditions.



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

For the course with the mean score is higher than 75.00 and the minimum score is not less than 45.00. Students must receive the score higher than 47.50 to take to re-examination or extra-course work.

For the course with the mean score between 60.00 – 74.99, students must receive the score higher than 40.00. However, when the mean score is less than 60.00, students, then, should receive the score higher than 40.00 in order to take the re-examination or extra-course work. Once students took the re-examination (extra-course work) and the course coordinator had considered the students' re-examination/course work to pass the criteria, then the students will receive the 'D' grade. While waiting for the re-examination or extra-course work result, the students' score should be indicated as 'I' grade.

3. Responsibilities of the Field Training Mentor in Student Evaluation

Evaluation Method	Weight (Percentage)
-	-

4. Responsibilities of the Faculty in Charge of Field Training in Student Evaluation

Evaluation Method	Weight (Percentage)
Application of knowledge during practice *	18
Medical hand skill evaluation*	12
Clinical Problem-Solving skill*	12
OPD recording and drug prescription skill*	3
Client communication skill*	3
Self-learning ability*	3
Responsibility and punctuality*	3
Teamwork*	3
Participation*	3
Grand round group case presentation	10
Group assignment	10
Individual case presentation	10
Minimum requirement performance	10
Total	100

*All methods are in rubric scoring evaluation



Program: Doctor of Veterinary Medicine
 Course title: Clinical Clerkship in Zoo and Exotic Animals
 Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
 Faculty / College / Institute: Faculty of Veterinary Science
 Department: Clinical Science and Public Health

5. Summary of Evaluation Diversification

Small group meetings with the field mentor veterinarians and field practice supervisors for further discussion and to conclude the assessment result.

6. Students' Appeals

Should the students have any suspicion or appeals to the teaching and learning activities and the grade assessment, students could make the appeal by filling in the form at MUVS' Academic Affairs. The appeal will be proposed to the course coordinator to consider the request. If the appeal could not be addressed at this point, it will be further process by the program's Teaching and Learning Development Committee. In case that the committee suggested further investigation should be done, the appeal will be purposed to the faculty's appealing committee to address the issue.

Appendix

Relations between the course and the program

Table 1 Relations between the course and the PLOs

Course Name Clinical Clerkship in Zoo and Exotic Animals	PLOs							
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
(Course Code) VSCL678	R,P	P		P		R	P	R

Table 2 Relations between CLOs and PLOs (ไม่ต้องระบุ subLos)

(Course Code) VSCL678	PLOs							
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CLO1 perform safe and proper restraint of zoo and exotic animals for physical examination and further common procedures				x				x
CLO2 perform history taking, planning the treatment, and recording the patient medical record of the zoo and exotic animals properly	x			x		x	x	x



Program: Doctor of Veterinary Medicine
Course title: Clinical Clerkship in Zoo and Exotic Animals
Course code VSCL 678

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master
☐ Higher Graduate Diploma ☐ Doctor
Faculty / College / Institute: Faculty of Veterinary Science
Department: Clinical Science and Public Health

CLO3 practicing the necessary skills for the initial medical treatment of zoo and exotic animals properly.		x		x				
CLO4 properly collect the laboratory diagnostic samples for further laboratory diagnosis.				x				
CLO5 properly evaluate the management and welfare of zoo and exotic animals.				x		x	x	