



Program: Doctor of Veterinary Medicine

Course title: Clinical Problem Solving and Integration of Veterinary Science I

Course code: VSPA200

Academic degree level ☒ Bachelor ☐ Graduate Diploma ☐ Master

☐ Higher Graduate Diploma ☐ Doctor

Faculty / College / Institute: Faculty of Veterinary Science

Department of Pre-Clinic and Applied Animal Science

TQF 3 Course Specification

Section 1 General Information

1. Course Code and Title

In Thai สปส 200 การแก้ปัญหาทางคลินิกและบูรณาการทางสัตวแพทย์ 1

In English VSPA 200 Clinical Problem Solving and Integration of Veterinary Science I

2. Number of Credits 1 (1-0-2)

(Theory 1 hrs. Practice 0 hrs. Self-Study 2hrs./week)

3. Curriculum and Course Type

3.1 Curriculum Bachelor Degree Program (Thai)

3.2 Course Type Specific Course ☒ Compulsory Course ☐ Electives

4. Course Coordinator and Lecturer

4.1 Course Responsible Lecturers

Instructor Dr. Jeerawat Soonthornsit

Department of Pre-Clinic and Applied Animal Science

Tel. 1539

E-mail: jeerawat.soo@mahidol.edu

Asst.Prof.Dr. Nawarus Prapaiwan

Department of Clinical Sciences and Public Health

Tel. 2213

E-mail: nawarus.pra@mahidol.edu

4.2 Lecturers Instructors of Faculty of Veterinary Science, Mahidol University

5. Semester/Class Level

5.1 Semester 1-2 / Class Level 2

5.2 Number of Students Allowed Approximately 80 Students

6. Pre-requisite

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7. Co-requisites

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8. **Study Site Location** Faculty of Veterinary Science, Mahidol University

9. Date of Preparation/Latest Revision of the Course Specifications

2nd March 2020

Section 2 Aims and Objectives

1. Course Goals

Providing learning experiences allows students to apply their veterinary basic knowledge and information to solving animal health management problems with regard to the moral and ethical principles of animal welfare.

2. Objectives of Course Development/Revision

2.1 Course Objectives

This course aims to provide knowledge and abilities as follows:

1. Apply basic knowledge in veterinary medicine to solve animal health management problems from case studies correctly.
2. Searching for information and resolving animal health problems based on case studies.
3. Consider morals, ethic, and animal welfare.

2.2 Course-level Learning Outcomes: CLOs

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

1. CLO1 Resolve the animal health management from case studies using accurate veterinary basic knowledge
2. CLO2 Select reliable and up-to-date information to solve animal health management problems based on case studies.
3. CLO3 Present the case study completely and correctly.



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Section 3 Course Description and Implementation

1. Course Description

สหสัมพันธ์โครงสร้างและหน้าที่ของระบบอวัยวะในร่างกายสัตว์ พฤติกรรม การจับบังคับ โภชนศาสตร์สัตว์ พันธุกรรม การเลี้ยงและการผลิตสัตว์ กรณีตัวอย่างศึกษาด้านสัตว์เลี้ยง ปศุสัตว์ สัตว์น้ำ สัตว์ป่าและสัตว์เลี้ยงชนิดพิเศษ

The correlation between structures and functions of the animal organ systems, behavior, restraint, nutrition, genetics and breeding, livestock production; case studies in companion, livestock, aquatic, wildlife, and exotic animals

2. Number of hours per semester

Theory (hours)	Practice (hours)	Self-study (hours)
15 (15x1)	-	30 (15x2)

3. Number of Hours per Week for Individual Advice

Make an appointment with the instructor through a course coordinator for 1 hour per week. (only Wednesday)

Section 4: 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 Resolve the animal health management from case studies using accurate veterinary basic knowledge.
2. CLO2 Select reliable and up-to-date information to solve animal health management problems based on case studies.
3. CLO3 Present the case study completely and correctly.

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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			
	Group assignment and discussion	Presentation	Participation	Assignment quality	In-class observation	Presentation skill
CLO1	X		X	X	X	
CLO2	X		X	X	X	
CLO3	X	X				X

SECTION 5 LESSON PLAN AND EVALUATION

1. Lesson Plan

Teaching Period	Topics/Details	Number of hours		Methods: Teaching Media	Lecturer
		Theory*	Practice**		
1	Orientation and Academic searching	1:00		Lecture: PPT	Course Coordinator
2	Group assignment (case study)	1:00		Group discussion: question 1	Instructors
3	Group assignment (case study)	1:00		Case study analysis: question 1	Instructors
4	Group assignment (case study)	1:00		Group discussion: question 2	Instructors
5	Group assignment (case study)	1:00		Case study analysis: question 2	Instructors
6	Group assignment (case study)	1:00		Group discussion: question 3	Instructors
7	Group assignment (case study)	1:00		Case study analysis: question 3	Instructors
8	Group assignment (case study)	1:00		Group discussion: question 4	Instructors
9	Group assignment (case study)	1:00		Case study analysis: question 4	Instructors

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Teaching Period	Topics/Details	Number of hours		Methods: Teaching Media	Lecturer
		Theory*	Practice**		
10	Presentation preparation	1:00		Group seminar: case study	Instructors
11	Presentation preparation	1:00		Group seminar: case study	Instructors
12	Presentation preparation	1:00		Group seminar: case study	Instructors
13	Presentation	1:00		Group presentation: PPT	Instructors
14	Presentation	1:00		Group presentation: PPT	Instructors
15	Presentation	1:00		Group presentation: PPT	Instructors
	Total hours of the entire semester	15	0		

2. Plan for Assessment of Expected Course-Level Learning Outcomes (CLOs)

2.1 Measurement and Evaluation of learning achievement

A. Formative Assessment

The assessment is performed during the course to measure the progress and development of students' learning by observing the behavior change and improvement of students' behavior and performance. The assessment results will be notified to the students (feedback) so that the students are constantly able to improve themselves. The assessment results are not included with the test scores at the end of the course.

B. Summative Assessment

(1) Tool and weight for measurement and evaluation

Learning Outcomes	Evaluation Method*			Weight (Percentage)
	Participation	Assignment quality	Presentation skill	
CLO1 Resolve the animal health management from case studies using accurate veterinary basic knowledge.	12	24		36
CLO2 Select reliable and up-to-date information to solve animal health management problems based on case studies.	12	24		36
CLO3 Present the case study completely and correctly.	12		16	28



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รวม	36	48	16	100
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(2) Measurement and evaluation

The measurement and evaluation use either the criteria-based or group-based system, according to the conditions and methods for academic results evaluation of the Faculty of Veterinary Science, Mahidol University. The grading symbols are: A, B+, B, C+, C, D+, D, and F. Students must receive a 'D' grade or above to pass the criteria.

(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, agreed to allow the students to take the re-examination or extra-course work to pass the course with the following conditions.

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. Students' Appeal

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.

Section 6 Teaching Resources



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1. Required Texts

- 1) McCracken TO. Kainer RA. And Carlson D Eds. Color Atlas of Small Animal Anatomy. Blackwell Publishing Professional, Iowa, USA. 2009.
- 2) Dyce KM. Sack WO. Wensing CJG. Eds. Textbook of veterinary Anatomy. Saunders Elsevier, Missouri, USA. 2005.
- 3) Reece WO. Functional Anatomy and Physiology of Domestic Animals. Wiley-Blackwell, Iowa, USA. 2009.
- 4) Hill RW. Wyse GA. And Anderson M. Eds. Animal Physiology. Sunderland, Massachusetts, USA. 2008.
- 5) Moyes CD. Schulte PM. Eds. Principles of Animal Physiology. Saunders Elsevier, Missouri, USA. 2007.
- 6) Gillespie JR. Flanders FB. Modern Livestock & Poultry Production. Maxwell Drive, New York, USA. 2009.

2. Suggested Materials

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3. Other Resources (if any)

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Section 7 Evaluation and Improvement of Course Implementation

1. Strategy for Course Effectiveness Evaluation by Students

At the end of each course, it is required for the students to assess the teaching of each instructor based on the following criteria: punctuality, good role model, application of morals and ethics for the instruction, ability to convey knowledge and encourage students to learn, giving opportunities for students to ask questions and to comment during the study.

The overall outcomes of each course will also be assessed by the students for the following issues: the instructor's knowledge and competency, the course's effectiveness, student's satisfaction with the study, and other comments from students. The evaluation is conducted through online platform.

2. Strategy for Teaching Evaluation

The instructors or the course coordinators are assigned to conduct the evaluation as follows.



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2.1 the students' evaluation for the instruction and overall outcomes of the course in accordance to criteria mentioned in No. 1 – Strategy for Course Effectiveness by Students.

2.2 The instructors must perform self-assessment for the following criteria.

- (1) Appropriate time spent to prepare for the teaching.
- (2) The instructor's satisfaction with the teaching results.
- (3) Solutions or recommendations for the program's teaching improvement or self-improvement for the next class/academic year.

3. Teaching Improvement

Prior to each academic year, there are meetings/seminars for the instructors of each course to plan to improve the course's teaching and learning management based on the following information.

- (1) the students' academic performance
- (2) the students' evaluation results
- (3) the instructors' assessment results

4. Verification of Standard of Learning Outcome for the Course

The verification of the standard of the Learning Outcome for the Course is conducted by the course coordinators based on the following aspects.

1. The goals of the learning outcomes are clear and feasible.
2. The learning experience is aligned with the expected goals.
3. The learning experience encourages the students to research and practice self-learning skills.
4. The evaluation methods are appropriate to assess the expected goals and learning experience.
5. The program applied the educational theory and the results from the previous evaluation to plan for improvement.

At the end of each academic year, the course coordinators, instructors, the Program Committee, and the Teaching and Learning Development Committee will consider the assessment results and the Learning Outcome for the Course to plan for the improvement of the next academic year.

Appendix

Relations between the course and the program



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Table 1 Relations between the course and the PLOs

Course Name Clinical Problem Solving and Integration of Veterinary Science I (Course Code) VSPA200	PLOs							
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
	R		R	R		R	R	I

Table 2 Relations between CLOs and PLOs

VSPA200	PLOs							
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CLO1 Resolve the animal health management from case studies using accurate veterinary basic knowledge.	X		X	X				X
CLO2 Select reliable and up-to-date information to solve animal health management problems based on case studies.						X		
CLO3 Present the case study completely and correctly.							X	