

# Master of Science Program in Interdisciplinary Veterinary Science

## International Program

### (Revised Curriculum 2012)

#### 1. Title of curriculum

Master of Science Program in Interdisciplinary Veterinary Science

#### 2. Name of degree

Master of Science (in Interdisciplinary Veterinary Science)

M.Sc. (in Interdisciplinary Veterinary Science)

#### 3. Objectives

3.1 Knowledge in principles and theories of veterinary science as a multidisciplinary sciences, and able to apply the principles and theories for problem-solving in the field of veterinary and related sciences.

3.2 Skills in conducting and analyzing research on the physical circumstances, society, economy, technology and environment of an individual locality.

3.3 Communication and exchange the knowledge of veterinary science and related topics efficiently at regional, national and international levels.

3.4 Realizing ethics and professional morality

#### 4. Structure of program

##### 4.1 Type A1

Compulsory courses(non-credit๓)	2 credits
Thesis	36 credits
Total	36 credits

##### 4.2 Type A2

Compulsory courses	8 credits
Elective courses	16 credits
วิทยานิพนธ์	12 credits
Total	36 credits

## 5. List of course

### 5.1 Type A1

#### 5.1.1 Compulsory courses

Students in the Master's Degree Program in Interdisciplinary Veterinary Science, (International Program) must enroll the following courses and other non-credit courses according to the recommendation of the Thesis advisory committee

710 893 Seminar in Interdisciplinary Veterinary Science I 1(1-0-2)

710 894 Seminar in Interdisciplinary Veterinary Science II 1(1-0-2)

5.1.2 Thesis 36 credits

710 898 ̂ Thesis 36 credits

### 5.2 Type A2

5.2.1 Compulsory courses 8 credits

710 701 Statistics for Veterinary Research 3(2-3-5)

710 721 Experimental Design in Veterinary Medicine 2(2-0-4)

710 893 Seminar in Interdisciplinary Veterinary Science I 1(1-0-2)

710 894 Seminar in Interdisciplinary Veterinary Science II 1(1-0-2)

710 896 Writing and Presenting Scientific Papers 1(1-0-2)

5.2.2 Elective courses (no less than) 16 credits

Select the following elective courses, and also some additional courses that may be open for enrollment later.

#### Anatomy

711 711 Veterinary Orthopedic Anatomy 3(2-3-5)

#### Physiology

712 721 Animal Physiology 3(3-0-6)

#### Pharmacology and Toxicology

713 721 Advanced Veterinary Pharmacology 2(2-0-4)

713 722 Advanced Veterinary Toxicology 2(2-0-4)

#### Pathobiology

714 711 Advanced Veterinary Clinical Pathology 3(2-3-5)

714 721 Cellular Pathology Techniques in Veterinary Science 2(2-0-4)

714 722 Principles of Pathogenesis in Veterinary Science 2(2-0-4)

714 731 Laboratory Techniques in Veterinary Parasitology 2(1-3-2)

714 732 Advanced in Veterinary Parasitology 2(2-0-4)

714 741	Diagnostic Technique in Veterinary Microbiology Surgery and Theriogenology	3(1-6-4)
715 700	Advanced Endocrinology of Animal Reproduction	3(3-0-6)
715 730	Advanced Reproduction in Cattle and Buffalo	3(3-0-6)
715 731	Advanced Reproduction in Swine	3(3-0-6)
715 732	Advanced Reproduction in Goat and Sheep	2(2-0-4)
715 733	Advanced Reproduction in Horse	3(3-0-6)
715 734	Advanced Reproduction in Companion Animals	3(3-0-6)
715 740	Advanced Techniques in Theriogenology	2(1-3-3)
715 741	Biotechnology in Animal Reproduction	3(3-0-6)
715 750	Dairy Cattle Herd Health Management	3(3-0-6)
715 751	Swine Herd Health Management	3(3-0-6)
715 752	Reproductive System Diseases in Livestock Veterinary Public Health	3(3-0-6)
716 711	Tropical Zoonotic Disease	2(2-0-4)
716 712	Advanced Veterinary Epidemiology	3(3-0-6)
716 713	Risk Analysis for Veterinary Public Health	2(2-0-4)
716 715	Analysis of Residual in Foods of Animal Origin	2(1-3-3)
716 717	Microbial Control in Food of Animal Origin	3(2-3-5)
716 718	Toxicology of Food, Feed and Law in Veterinary Public Health	3(3-0-6)
716719	Biostatistics for Veterinary Science	3(3-0-6)
716 721	Analysis of Microbial in the Food Chain	2(1-3-3)
716 761	Environmental and Livestock Waste Management	2(2-0-4)
716 764	Economics and Administration of Veterinary Public Health Veterinary Medicine	3(3-0-6)
717 720	Advanced Veterinary Clinical Medicine	3(3-0-6)
717 721	Advanced Veterinary Medicine	3(3-0-6)
717 724	Advanced Small Animal Medicine	3(2-3-5)
717 725	Advanced Equine Medicine	3(2-3-5)
717 726	Advanced Ruminant Medicine	3(2-3-5)
717 727	Aquatic Medicine and Farm Management	3(2-3-5)
717 728	Equine Stud Farm Health Management	3(2-3-5)
717 729	Equine Sports Medicine and Exercise Physiology	3(2-3-5)

**6. Course Schedule**

Year 1		First Semester		
Code	Subject	Type A 1 credit	Type A 2 credit	
710 701	Statistics for Veterinary Research	-	3(2-3-5)	
710 893	Seminar in Interdisciplinary Veterinary Science 1	1(1-0-2)	1(1-0-2)	
		Audit		
71x xxx	Elective	-	6	
710 898	Thesis	9	-	
	Number of credits this semester	9	10	
	Cumulative number of credits	9	10	
Year 1		Second Semester		
Code	Subject	Type A 1 credit	Type A 2 credit	
710 894	Seminar in Interdisciplinary Veterinary Articles II	1(1-0-2)	1(1-0-2)	
		Audit		
710 721	Experimental design in Veterinary Medicine	-	2(2-0-4)	
710 896	Writing and Presenting Scientific Papers	-	1(1-0-2)	
xxx xxx	Elective courses	-	5	
710 898	Thesis	9	-	
	Number of credits this semester	9	9	
	Cumulative number of credits	18	19	
Year 2		First Semester		
Code	Subject	Type A 1 credit	Type A 2 credit	
xxx xxx	วิชาบังคับเลือก Elective courses	-	5	
710 898	วิทยานิพนธ์ Thesis	9	-	
710 899	วิทยานิพนธ์ Thesis	-	6	
	Number of credits this semester	9	11	

Cumulative number of credits		27	30
Year 2	Second Semester		
Code	Subject	Type A 1 credit	Type A 2 credit
710 898	Thesis	9	-
710 899	Thesis	-	<b>6</b>
Number of credits this semester		9	6
Cumulative number of credits		36	36