

## Master of Science Programme in Veterinary Biomedical Sciences (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา ชีวเวชศาสตร์ทางการแพทย์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Veterinary Science

คณะสัตวแพทยศาสตร์

There are 3 major concentrations

### 1. Veterinary Diagnostic Sciences

Admission Number

6	7	0	3	M	G	0	1
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วิชาเอกวิทยาศาสตร์การวินิจฉัยทางการแพทย์

Expected number of Students to be accepted year round : 10 Students

### 2. Applied Veterinary Biomedical Sciences

Admission Number

6	7	0	3	M	G	0	2
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and Veterinary Public Health

วิชาเอกเวชศาสตร์ประยุกต์ทางการแพทย์และสัตวแพทย์สาธารณสุข

Expected number of Students to be accepted year round : 5 Students

### 3. Zoo Animal and Wildlife Health Managements

Admission Number

6	7	0	3	M	G	0	3
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วิชาเอกการจัดการสุขภาพสัตว์ สวนสัตว์ และสัตว์ป่า

Expected number of Students to be accepted year round : 3 Students

## Admission Requirements

A candidate must:

### - Veterinary Diagnostic Sciences / Applied Veterinary Biomedical Sciences and Veterinary Public Health

Hold a degree or study in the final year of Doctor of Veterinary Medicine (DVM), Bachelor of Science, Bachelor of Science in Health Science or a relevant undergraduate program from Thai or foreign universities which are recognized by the Office of Higher Education Commission, Thailand

### - Zoo Animal and Wildlife Health Managements

Hold a degree or study in the final year of Doctor of Veterinary Medicine (DVM), Master of Science, Master of Science in Forestry or a relevant postgraduate program from Thai or foreign universities which are recognized by the Higher Education Commission, Thailand have a grade point average of at least 2.50

#### 1. Submit a certificate of English proficiency with minimum admission score:

- IELTS - at least 3 or
- TOEFL INTERNET BASED - at least 32 or
- TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
- MU GRAD TEST (Computer based) - at least 36

### Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
- Application without submitting a valid English certificate will NOT be considered.
- MU English Competence Standards: [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)
- MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies.  
Tel. 0-2441-4125 ext. 221-222

2. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances

### **Written Examination**

There is NO written examination for this program. Applicants must check their eligibility for interview upon the announcing date of the interview list which is scheduled for each admission round.

### **Curriculum Structure**

	<b>Credit</b>
Prerequisite Courses	-
Core Courses	4
Required courses	11
Elective courses no less than	9
Dissertation	12

	<b>Credit</b>
<b>Prerequisite Courses</b>	
SCID 500 Cell and Molecular Biology	3(3-0-6)

<b>Core Courses</b>	
GRID 603 Biostatistics	3(3-0-6)
VSID 802 Veterinary Ethics and Welfare	1(1-0-2)

### **Required courses**

#### **1. Veterinary Diagnostic Sciences**

VSID 700	Seminar in Veterinary Biomedical Science I	1(1-0-2)
VSID 701	Seminar in Veterinary Biomedical Science II	1(1-0-2)
VSPA 710	Causes and Progression of Disease	3(2-3-5)
VSPA 711	Laboratory Diagnostic Techniques	3(2-3-5)
VSPA 712	Biosafety and Biosecurity in Laboratory Management	1(1-0-2)
VSID 800	Research Methodology	2(2-0-4)

## **2. Applied Veterinary Biomedical Sciences and Veterinary Public Health**

VSID	700	Seminar in Veterinary Biomedical Science I	1(1-0-2)
VSID	701	Seminar in Veterinary Biomedical Science II	1(1-0-2)
VSPA	710	Causes and Progression of Disease	3(2-3-5)
VSCL	730	Clinical Epidemiology in Veterinary Science	2(2-0-4)
VSCL	731	Evidence-based Practice in Veterinary Science	1(1-0-2)
VSCL	732	Case study in Biomedical Science	1(1-0-2)
VSID	800	Research Methodology	2(2-0-4)

## **3. Zoo Animal and Wildlife Health Managements**

VSID	700	Seminar in Veterinary Biomedical Science I	1(1-0-2)
VSID	701	Seminar in Veterinary Biomedical Science II	1(1-0-2)
VSPA	710	Causes and Progression of Disease	3(2-3-5)
VSCL	730	Clinical Epidemiology in Veterinary Science	2(2-0-4)
VSCL	731	Evidence-based Practice in Veterinary Science	1(1-0-2)
VSCL	770	Conservation Medicine	1(1-0-2)
VSID	800	Research Methodology	2(2-0-4)

## **Elective courses**

### **1. Veterinary Diagnostic Sciences**

VSID	713	Selected Topics in Veterinary Diagnostic Science	3(3-0-6)
VSID	714	Advanced Clinical Biochemistry	3(2-3-5)
VSPA	715	Advanced Clinical Virology in Veterinary Science	3(2-3-5)
VSPA	716	Advanced Clinical Bacteriology and Mycology in Veterinary Science	3(2-3-5)
VSPA	717	Advanced Clinical Toxicology in Veterinary Science	3(2-3-5)
VSPA	718	Applied Clinical Pathology in Veterinary Science	3(2-3-5)
VSPA	719	Application of the Diagnostic Techniques in Veterinary Parasitology	3(2-3-5)
VSPA	720	Applied Molecular Biology in Veterinary Science	3(2-3-5)
VSPA	721	Laboratory Animal Use and Management	2(1-3-3)
VSPA	722	Advanced Immunology in Veterinary Science	3(3-0-6)
VSPA	723	Analytical Toxicology	3(2-3-5)
VSID	801	Scientific English Writing	1(1-0-2)
VSPA	860	Current Concept in Pathology	2(2-0-4)
VSPA	861	Advanced Systemic Pathology	2(2-0-4)

### **2. Applied Veterinary Biomedical Sciences and Veterinary Public Health**

SIIM	616	Stem Cell Science	3(3-0-6)
VSID	733	Neurology in Veterinary Science	3(3-0-6)
VSID	734	Neuropathology in Veterinary Science	3(3-0-6)
VSID	735	Applied Food Microbiology and Immunology	3(2-3-5)
VSID	736	Food Safety and Security	3(3-0-6)
VSID	737	International Food Laws and Regulations	2(2-0-4)
VSPA	738	Stem Cell and Regeneration in Veterinary Medicine	3(2-3-5)

VSPA	739	Techniques for Cell Culture	3(2-3-5)
VSPA	740	Molecular Signaling for Drug Development in Veterinary Science	3(2-3-5)
VSCL	741	Advanced Epidemiology in Veterinary Science	2(2-0-4)
VSCL	742	Advanced Biostatistics in Veterinary Science	2(1-2-3)
VSCL	743	Epidemiological Data Management	1(0-2-1)
VSCL	744	Economics of Food Safety	1(1-0-2)
VSID	801	Scientific English Writing	1(1-0-2)

### **3. Zoo Animal and Wildlife Health Managements**

VSID	771	Applied Exotic Animal Medicine	3(2-3-5)
VSID	772	Applied Zoo Animal Medicine	2(2-0-4)
VSID	773	Applied Wildlife Animal Medicine	2(2-0-4)
VSID	774	Selected Topics in Zoo Animal and Wildlife Management	2(2-0-4)
VSID	775	Applied Animal Nutrition	3(2-3-5)
VSPA	776	Feedstuffs, Feeding and Feed Formulation	3(2-3-5)
VSCL	777	Ex-situ Wildlife Management	2(1-3-3)
VSCL	778	In-situ Wildlife Management	2(1-3-3)
VSCL	779	Wildlife Forensic Science	2(1-3-3)
VSCL	780	Forensic Entomology	2(1-3-3)
VSCL	781	Forensic Pathology in Veterinary Science	2(1-3-3)
VSID	801	Scientific English Writing	1(1-0-2)

### **Dissertation**

VSID	698	Thesis	12(0-48-0)
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**\* These may change in cases where there are suggestions for the improvement of the curriculum**

### **Required Documents**

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format

- Recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of a medical license
- A copy of a work experience certifying letter
- A copy of Certificate of English proficiency :  
IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST( Computer based)
- A copy of proof of payment.

### **Job option after graduation**

1. Researchers for Veterinary Diagnosis, Applied Veterinary Biomedical Sciences and Veterinary Public Health, and Zoo Animal and Wildlife Health Managements at Thai or foreign universities, colleges, or other academic and research institutes
2. Scientists at advanced clinical laboratories of both governmental agencies or private organization  
Specialists of veterinary medical laboratory's equipment, tools, and chemicals supply companies

**Further information may be obtained from the Director of Graduate Studies,  
Veterinary Science:**

1. **Dr.Kridsada Chaichoun (E-mail: [kridsada.cha@mahidol.edu](mailto:kridsada.cha@mahidol.edu))**

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2. **Dr.Khuanwalai Maklon (E-mail: [khuanwalai.mal@mahidol.edu](mailto:khuanwalai.mal@mahidol.edu))**

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### **Program Coordinator**

1. **Miss Panwad Preeyanont (E-mail: [panwad.pre@mahidol.ac.th](mailto:panwad.pre@mahidol.ac.th))**

Room Academic Affairs Building Learning and Laboratory Floor 4<sup>th</sup>.

Department of Office of the Dean Faculty of Veterinary Science.

Tel: 0-2441-5242-4 ext. 1429 Fax: 0-2441-0773

**Note** 1. For more education information : <http://www.grad.mahidol.ac.th>

**For more information please contact The Student Admission Section.  
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : [gradthai@mahidol.ac.th](mailto:gradthai@mahidol.ac.th)**