

Master of Science Program in Veterinary Public Health (International Program)

1. **Course Title:** Master of Science Program in Veterinary Public Health
(International Program)
2. **Master Degree:** Master of Science (Veterinary Public Health)
3. **Academic Institution:** Veterinary Public Health and Food Safety Centre for Asia
Pacific, Faculty of Veterinary Medicine, Chiang Mai University
4. **Duration:** 2 years (June 2026 – May 2028)

5. Background and Rational:

Master of Science Program in Veterinary Public Health (International Program) was revised from the Master of Veterinary Public Health Program which is a joint program between two Faculties of Veterinary Medicine (Chiang Mai University, Thailand and Freie Universitaet Berlin, Germany), the joint master program had already produced 9 batches of students (academic year 2003 – 2022). The course was established according to Chiang Mai University policy to produce an academic excellence and global citizens.

Veterinary Public Health plays an important role on security and safety of food from animal origin in national and international level including animal disease control, transboundary animal diseases and zoonotic diseases which animal-human interface as well as control of food borne diseases, antimicrobial resistant pathogens and hazardous residues along the food production chain. Those veterinary public health tasks are adopted as learning contents of the course, which promote national and international strategic plan in sustainable agriculture and food security, the administrative direction of research consequently supported the policy of university and the country in several ways including community academic service, strengthen community sustainable agriculture under Sufficiency Economy Philosophy, promoting arts, culture and religion, local natural resources and environmental conservation. The course provides the students to integrate a knowledge from both lecture and practice according to student centered learning in 21th century education.

The course also provides the area to exchange academic knowledge and experience between Thai students and international students to allow transform the knowledge in different contexts of the countries. The network of international alumni from different

countries will later on build up the network of food security and food safety in the Asia Pacific region. Moreover, this is the development of current and future workforce in ASEAN community.

Veterinary Public Health and Food Safety Centre for Asia Pacific (VPHCAP), Faculty of Veterinary Medicine, Chiang Mai University, Thailand was established as a regional center for graduate education, research and academic services in veterinary public health which emphasized on security and safety of food from animal origin, zoonotic disease control, as well as transboundary diseases in order to strengthen international trade of animals and animal origin products from Southeast Asia and the Greater Mekong Sub-region under WTO-SPS's Agreement. The mission of the centre is to operate the international master degree curriculum for students from Asia Pacific especially Southeast Asia and South Asia region. The course provides students the intellectual knowledge and practice under supervision of university professors and experts from national and international partners such as Freie Universitaet Berlin, Germany, Obihiro University of Agriculture and Veterinary Medicine, Japan, University of Minnesota, USA.

The senior experts from international organization such as Food Agriculture Organization of United Nation (FAO), International Livestock Research Institute (ILRI) also are invited for co-teaching. Moreover, the objective of VPHCAP is to build capacity in academic services through training course and scientific international conference every year. In 2016, the World Organization for Animal Health (OIE) designated the VPHCAP as an OIE Collaborating Centre for Veterinary Services Capacity Building under collaboration with Thailand's Department of Livestock Development (DLD). The OIE Collaborating Centre for Veterinary Services Capacity Building aims to be a center for developing and increasing the capacity of Veterinarians who work relates to food safety of animal origin, control of animal disease and zoonotic disease in the Asia Pacific region.

6. Objectives:

To provide the student with knowledge and skills in;

1. Food hygiene, food security and safety in global animal food production
2. Application of epidemiology techniques in animal diseases, zoonotic diseases, transboundary animal diseases prevention and control
3. Implementation of risk-based approach for better public health
4. Harmonize human, animal and environmental health through one health approach

5. Effective role in veterinary services and applications of related laws and regulations
6. Creation of research to solve home country existing public health problems
7. Enthusiastic to be lifelong learner

7. Course Synopsis and Methodology:

Master of Science (Veterinary Public Health) international program aims to produce graduates from Asia countries to have all-round competency in Veterinary Public Health and create the network to control, prevent and resolve diseases caused by epidemic diseases, zoonoses and food hygiene, with an emphasis on quality control and safety of food from animal-origin along the food production including environmental hygiene in region level.

7.1 Study plan

Master of Science in Veterinary Public Health (International Program) 36 credits total. Required subject 24 credits and Thesis 12 credits.

First Year		
Course work		Credit
VPH 758 (652758)	Food Safety Management	4 (3-3-7)
VPH 759 (652759)	Sustainable Food System	2 (2-0-4)
VPH 760 (652760)	Global Health Challenges	2 (1-2-3)
VPH 761 (652761)	Leadership in Veterinary Service	2 (1-2-3)
VPH 762 (652762)	Epidemiology Method for Veterinary Public Health	2 (2-0-4)
VPH 763 (652763)	Research Methodology for Veterinary Public Health	2 (2-0-4)
VPH 764 (652764)	Analysis of Veterinary Epidemiological Data	3 (2-2-5)
VPH 765 (652765)	Seminar and skills development for graduate students	2 (2-0-4)
VPH 766 (652766)	Seminar in Veterinary Public Health	2 (2-0-4)
VPH 767 (65267)	Risk Analysis	2 (1-2-3)
VPH 767 (652768)	Zoonoses and Transboundary Animal Diseases	1 (1-0-2)
	Total	24

Second Year

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VPH 799 (652799)	Master's Thesis	12
	- Proposal development	-
	- Thesis defense	-
	Total	12
1 st workshop	Study design and field work launch	-
2 nd workshop	Data analysis	-

7.2 Course Content

A .Courses work	a minimum of	24	credits
Required course		24	credits
652758	Food Safety Management	4	credits
652759	Sustainable Food System	2	credits
652760	Global Health Challenges	2	credits
652761	Leadership in Veterinary Service	2	credits
652762	Epidemiology Method for Veterinary Public Health	2	credits
652763	Research Methodology for Veterinary Public Health	2	credits
652764	Analysis of Veterinary Epidemiological Data	3	credits
652765	Seminar and skills development for graduate students	2	credits
652766	Seminar in Veterinary Public Health	2	credits
652767	Risk Analysis	2	credits
652768	Zoonoses and Transboundary Animal Diseases	1	credit
B. Thesis			
652799	Master's Thesis	12	credit

C. Academic Activities

1. “The Workshop: Study design and field work launch” This workshop is designed for research proposal development which is a platform for students to comprehend their knowledge in veterinary public health and current issues in their home countries. The gap of knowledge will be discussed and leads to be a research question. Research proposal will be developed among students and

thesis advisers. Academics and interests are invited and welcomed to discuss in proposal presentation.

2. “The Workshop: Data analysis” After sample collection and field work in each home country, this workshop will be held for data analyses. This activity enhances the discussion among students and advisers for analytical method of data. Therefore, interpretation of result and thesis writing will be discussed and guided in the appropriate direction.
3. Master’s thesis work or a part of master’s thesis work must be published or at least accepted to publish in a national journal listed in TCI Tier 1 database **or** master’s thesis work or a part of master’s thesis work must be presented in international conference accepted by the field of study. At least 1 publication of thesis work must specify student as the first author.

8. Graduation Conditions:

1. Students are required to complete 24 credits of course work and 12 credits of thesis.
2. Master’s thesis work or a part of master’s thesis work must be published in a national journal listed in TCI Tier 1 database or equivalent or higher or must be published in a full paper as a proceeding in international conference accepted by the field of study.

9. Applicant Qualifications

1. Hold a bachelor degree in Veterinary Science or equivalent
2. Applicants with other related bachelor degree will be considered by administrative committee of Master of Science in Veterinary Public Health Curriculum.
3. English proficiency
 - 3.1 Demonstrate official proof of English proficiency, dated within the last 2 years
 - TOEFL: 523 (PBT), 523 (ITP), 193 (CBT), 69 (IBT) or
 - IELTS Band 5.5 or
 - CMU-eTEGS: 65

Other qualifications will be considered by administrative committee of Master of Science in Veterinary Public Health Curriculum.

10. Document Required

1. TICA application form
Download link: <https://tica-thaigov.mfa.go.th/en/page/75500-tipp-application-form?menu=605b13dbb6f1b76ed31778b3>
2. Program application form/ Download link: <https://vphcap.vet.cmu.ac.th/mscvph.html>
3. 1 inch, full-face photograph without accessories, less than 6 months old (affixed to the application form)
4. A copy of the document certifying name or surname changing (if any), or document of marriage registration (females only). In case the name indicated in other document is not similar
5. A copy of transcript
 - Applicants who have already graduated with a bachelor's degree must submit two copies of official transcript of bachelor's degree with grade point average (GPA).
 - Applicants who are studying in the last semester of the Academic Year 2020 must submit a copies of official transcript of bachelor's degree for all years to the last semester.
6. A copy of English test results obtained within last two years, such as TOEFL, IELTS, CMU-eTEGS
7. Health Certificate
8. A copy of identity card or passport
9. Two letters of recommendation
10. A letter of Motivation

11. Contact:

11.1 **Veterinary Public Health and Food Safety Centre for Asia Pacific
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11.2 **Program director**

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