

UNIVERSITY OF THE PHILIPPINES LOS BANOS
College of Veterinary Medicine
Master in Veterinary Epidemiology



Sound animal health care decision making and prevention and control of zoonoses, animal diseases and foodborne diseases have to be based on adequate information about animal health status, risks involved and the proper analysis and interpretation of animal health data. The program is designed to have a pool of field epidemiologists who are sufficiently knowledgeable, skilled, competent, confident and able to perform essential surveillance, risk analysis and disease prevention and control activities in populations, including animal health investigation and research.

In the program, students will have ample opportunities to work on animal health events of current importance to their workplace or practice areas, even while studying. The Field Project in Veterinary Epidemiology will further strengthen the capacity of the students in solving animal health problems and in conducting animal health researches since the project can be part of the regular veterinary service or practice activities, thus serve ongoing animal health needs.

Program goals: At the end of the program, graduates will be able to:

- a. Design and implement epidemiological studies and surveillance system;
- b. Apply epidemiological principles and methods to risk analysis, surveillance, prevention and control of diseases in animal populations;
- c. Evaluate the risks and relevant factors pertaining to specific diseases and to formulate an appropriate prevention or control strategy or a research study;
- d. Manage, analyze and interpret animal health data;
- e. Communicate effectively the results of an assessment, surveillance or investigation to appropriate groups involved in animal or human health, key policy makers, farmers, the media and the public

Program duration: one summer and one year

Admission Requirements:

- 1) UPLB Graduate School (see UPLB Graduate School website (<http://gs.uplb.edu.ph>); and
- 2) UPLB College of Veterinary Medicine:

Applicants shall be holders of DVM or related degree in Life Sciences from any recognized institution and with at least one (1) year work experience in veterinary or related practice.

The Master in Veterinary Epidemiology Curriculum

All students must earn a total of 30 units for graduation. At least 18 units of major courses, 3 units of Special Topics, 6 units of Field Project and 3 units elective must be earned.

A. Major (Required) Courses: **Minimum of 18 units**

Course code	Units	Course Title	Course Description	Summer/Sem Offered	Prerequisite
VEPI 221	3	Veterinary Epidemiological Methods	Application of epidemiological concepts and methods for systematic inquiry into disease status of animal populations	First	Consent of Instructor (COI)
VEPI 222	3	Veterinary Surveillance	Epidemiologic concepts and methods for surveillance of animal and zoonotic diseases	Summer and First s	COI
VEPI 223	3	Control of Infectious Animal Diseases	Application of epidemiology in the control of infectious diseases in animals	Summer and First	VPH 121 or COI
VEPI 224	3	Outbreak Investigation and Control	Epidemiologic approach to the investigation and containment of disease outbreaks	First and Second	VPH 121 or COI
VEPI 225	3	Veterinary Risk Analysis	Introduction to Animal Health Risk Analysis	First and Second	COI
STAT 264	3	Statistics for Epidemiology	Statistical methods in the collection, organization and analysis of epidemiologic data and subsequent interpretation	First	STAT 1 or COI

B. Required Courses: Special Topics and Field Project (Total of 9 units)

Course code	Units	Course Title	Course Description	Semester Offered	Prerequisite
VEPI 291	3	Special Topics in Veterinary Epidemiology	Discussion of topics of concern in veterinary epidemiology: Animal Health Economics	First	None
VEPI 295	6	Field Project in Veterinary Epidemiology	Research project in veterinary epidemiology	Second	COI

C. Elective Course (Minimum of 3 units): CHOOSE AT LEAST ONE:

EPIDEMIOLOGY

Course code	Units	Course Title	Course Description	Semester(s) Offered	Prerequisite
VEPI 226	3	Veterinary Informatics	Application of computer technology in veterinary epidemiology	First and Second	COI
VEPI 227	3	Environmental Animal Health	Factors that may have adverse effects on the health of animal and human populations, and the wider environment, and their management	First and Second	None
VEPI 228	3	Veterinary Diagnostics	Evaluation of veterinary diagnostic tests in populations	First	VPH 121 or COI

VETERINARY PUBLIC HEALTH

Course code	Units	Course Title	Course Description	Semester(s) Offered	Prerequisite
VPH 222	3	Microbial and Parasitic Zoonoses	Biological, ecological and epidemiological features of microbial and parasitic infections transmissible between man and vertebrate animals	First and Second	VPH 122 or COI

POLICY DEVELOPMENT

Course code	Units	Course Title	Course Description	Semester(s) Offered	Prerequisite
DM 220	3	Public Policy and Program Administration for Development	Policy formulation, analysis and implementation; program administration and project management for development	First and Second	COI
SPPS 202	3	Methods of Policy Analysis		First and Second	COI

LOCAL GOVERNANCE

Course code	Units	Course Title	Course Description	Semesters Offered	Prerequisite
LGD 210	3	Governance and Development	Concepts, models, principles, tools, indicators, practices, issues, trends and prospects in governance and development	First and Second	None

DEVELOPMENT COMMUNICATION

Course code	Units	Course Title	Course Description	Semester Offered	Prerequisite
DEVC 261	3	Testing and Evaluation of Communication Materials	Methods of testing and evaluating print, broadcast and audiovisual communication materials; audience studies	First	COI
DEVC 201	3	Communication Theory	The significance, nature, elements and dynamics of the communication process; some theories and perspectives in the study of communication.	First and Second	COI

AGRICULTURAL ECONOMICS

Course code	Units	Course Title	Course Description	Semesters Offered	Prerequisite
AgEcon 111	3	Farm Management	Principles and analytical tools in the organization of the farm	First and Second s	Econ 11
AECO 241	3	Economic Analysis and Planning of Agricultural Projects	Economic analysis of agricultural projects from national and individual viewpoints; identification of projects; preparation and evaluation of project plans	First and Second	Econ 101 or COI

Schedule of courses (For Regular Students)

Summer (Prior to Year 1)	First Sem	Second Sem
VEPI 222 (Veterinary Surveillance)	VEPI 221 (Veterinary Epidemiological Methods)	VEPI 225 (Veterinary Risk Analysis)
VEPI 223 (Control of Infectious Animal Diseases)	VEPI 224 (Outbreak Investigation and Control)	VEPI 295 (Field Project in Veterinary Epidemiology)
	VEPI 291 (Special Topics in Veterinary Epidemiology: Animal Health Economics)	
	STAT 264 Statistics for Epidemiology	
	Elective	
6 units	15 units	9 units