

# PUBLIC HEALTH ENTOMOLOGY - CERTIFICATE

This program is focused on insects and other arthropods that serve as vectors and reservoirs of disease pathogens and are responsible for the direct and indirect causation of disease.

Population growth and distribution predicted over future decades pose increased risks of disease outbreaks and emergence of new diseases worldwide. Scientists from many disciplines, physicians, veterinarians, health-care practitioners, public health workers and policy makers are needed to provide public health surveillance, make new discoveries, and find solutions to address these risks.

Employment opportunities in the public health sector include environmental and health service agencies, mosquito control districts, the Centers for Disease Control and Prevention (CDC), the Department of Defense, the World Health Organization, and the PanAmerican Health Organization.

Students completing this certificate will be competitive for employment upon graduation, for graduate programs in related disciplines, such as Master's programs in Public Health, Epidemiology, and Entomology, as well as professional schools.

Eligibility requirements for entrance:

1. Completion of a minimum of one (1) course from both Category I and II with a grade of B or better and a cumulative TAMU GPA of 2.0+
2. Students must complete Eligibility Requirement 1 and submit an application before completion of 75 total credit hours.

For additional information and to discuss the scheduling of course requirements upon successful completion of your entrance requirements, please contact a member of the Entomology Academic Advising Team to submit your Certificate in Public Health Entomology application.

## Program Requirements

Code	Title	Semester Credit Hours
<b>CATEGORY I</b>		
Select one of the following: <sup>1</sup>		3
BESC 314	Pathogens, the Environment and Society	
ENTO 210	Global Public Health Entomology	
VTPB 221	Great Diseases of the World	
<b>CATEGORY II</b>		
ENTO 208 & ENTO 209	Veterinary Entomology and Veterinary Entomology Laboratory <sup>1</sup>	3
ENTO 423 & ENTO 427	Medical Entomology and Medical Entomology Laboratory <sup>1</sup>	3
<b>CATEGORY III</b>		
Select one of the following: <sup>2</sup>		3
ENTO 403	Urban Entomology	
HLTH 354/ PHLT 354	Medical Terminology for the Health Professions	

PHLT 302 Foundations of Public Health

PHLT 305 Epidemiology in Public Health

RWFM 309/Wildlife Diseases

VTPB 301

VIBS 204 Fundamentals of Food Toxicology and Safety

VIBS 413 Introduction to Epidemiology

VTPB 409 Introduction to Immunology

### CATEGORY IV

Select one of the following: <sup>2</sup> 3

ENTO 425 Disease Ecology

ENTO 426/ VIBS 426 Methods in Vector-Borne Disease Ecology

ENTO 441 Engineering Vector Populations

ENTO 442 Mosquito - A History of Humankind's Struggle for Survival with the Deadliest Animal on the Planet

**Total Semester Credit Hours**

**15**

<sup>1</sup> Must make a grade of B or better.

<sup>2</sup> Must make a grade of C or better.

**To be awarded the certificate, students must:**

- Successfully complete courses in Category I-III **PRIOR** to enrollment in Category IV.
- Earn a cumulative 3.0 Program GPA or better in all certificate coursework.
- Complete exit survey.
- Meet the minimum qualifications for graduation as defined by Texas A&M University.