

# GRADUATE CERTIFICATE IN VECTOR-BORNE DISEASES

## Requirements Effective Spring 2025

Additional coursework may be required due to prerequisites.

Code	Title	Credits
<b>Core Courses</b>		
MIP 533/VS 533	Epidemiology of Infectious Diseases/ Zoonoses	3
Biology of Disease Vectors Module: <sup>2,3</sup>		
MIP 567	Introduction to Biology of Disease Vectors	1
MIP 568	Biology of Arbovirus Vectors/Genetics	1
MIP 569	Biology of Parasite/Bacteria Vectors	1
<b>Electives</b>		
Select a minimum of six credits from the following:		6
AB 523	Advanced Evolution/Classification of Insects	
AB 529	Pesticide Resistance Evolution and Management	
AB 551	Advanced Integrated Pest Management	
BSPM 794	Independent Study <sup>1</sup>	
JTC 630	Health Communication	
MIP 535	Vector Collection and Identification Methods	
MIP 537A	Advanced Virology: Fundamental Concepts and New Insights <sup>2</sup>	
MIP 537B	Advanced Virology: Mechanisms of Viral Disease <sup>2</sup>	
MIP 537C	Advanced Virology: Vector-Borne Viruses <sup>2</sup>	
MIP 540	Fundamentals of Biosafety and Biosecurity	
MIP 573A	Bacterial Pathogenesis: Introduction to Mechanisms <sup>2</sup>	
MIP 573B	Bacterial Pathogenesis: Mechanisms and Lifestyle <sup>2</sup>	
MIP 573C	Bacterial Pathogenesis: Evading Host Defenses <sup>2</sup>	
MIP 795	Independent Study <sup>1</sup>	
<b>Program Total Credits:</b>		<b>12</b>

\*This certificate may have courses in common with other graduate certificates. A student may earn more than one certificate, but a given course may be counted only in one certificate program.

<sup>1</sup> Variable credit can be obtained towards the certificate by conducting research in a vector-biology lab. These independent study credits can only be taken after the 9 regular course credits have been completed.

<sup>2</sup> This course is offered in modular format, with three 1-credit modules.

<sup>3</sup> All three modules must be taken to receive core credit.