

## Doctor of Philosophy Degree Program Requirements

### Ph.D. - Entomology

**Required courses:**

ENTO 5464	4 hours: Insect Biology and Classification (Not required if ENTO 4464 previously completed)
ENTO 5003	3 hours: Insect Biochemistry
ENTO 5044	4 hours: Insect Physiology (Not required if ENTO 3044 previously completed)
ENTO 5870	2 hours: Scientific Presentations (both fall and spring semesters – 1 credit hour each). <b>Optional if two semesters of ENTO 5870 were previously completed during an OSU ENTO-PLP master's degree program.</b>

**Recommended course:**

ENTO 5992	2 hours: Career Skills and Professionalism
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Plus additional courses to complete the graduate program POS.

### Ph.D. - Plant Pathology

**Required courses:**

Introductory – one is required if not previously taken

PLP 3343	3 hours: Principles of Plant Pathology (Introductory; no graduate credit)
PLP 5343	3 hours: Principles of Plant Pathology

Pathogens courses:

PLP 5104	4 hours: Mycology
PLP 5724	4 hours: Physiology of Host-Pathogen Interactions

Additional Pathogen courses – 2 required:

PLP 5003	3 hours: Plant Nematology
PLP 5012 / 5013	5 hours: Plant Virology Lab (2 hours) / and Lecture (3 hours)*
PLP 5304	4 hours: Phytobacteriology

\*Plant Pathology majors must take both lab and lecture (counts as one core course). Non-PLP majors may take PLP 5012 lab only, or PLP 5013 lecture only, or both lab and lecture.

Concepts courses – 2 required (at least one course marked with \*\* must be completed)

PLP 5524**	4 hours: Integrated Management of Insect Pests and Pathogens
PLP 5613**	3 hours: Host Plant Resistance
PLP 6303	3 hours: Soilborne Diseases of Plants

Professionalism:

PLP 5870	2 hours: Scientific Presentations (both fall and spring semesters – 1 credit hour each). <b>Optional if two semesters of PLP 5870 were previously completed during an OSU ENTO-PLP master's degree program.</b>
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**Recommended course:**

PLP 5992	2 hours: Career Skills and Professionalism for Scientists
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Plus additional courses to complete the graduate program and POS.