



<b>Master in Plant Health Management Curriculum Advising Sheet</b>	
<b>MPHM Graduate Chairs</b>	
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**Requirements and Curriculum**

Master in Plant Health Management students are required to complete a minimum of 35 credit hours of graduate work with a minimum cumulative GPA of 3.0. At least 25 credit hours must be earned at OSU.

	<b>Semester Credit Hrs</b>
Core Courses	24-25
Targeted elective in Plant Pathology or Entomology	2-3
Individual Studies or Internship	4-5
Directed Electives	2-5
<b>Total credits</b>	<b>35</b>

**Course and Credit Hour Requirements**

All students seeking a Master in Plant Health Management will take the following courses. Note this is an interdisciplinary program, so some core requirements are in the School of Environment and Natural Resources and Department of Horticulture and Crop Science. Course substitutions may be allowed with prior approval.

**Core Courses (24 - 25 credits):**

	<u>Credits</u>	<u>Semester</u>
PLNTPTH 5603 Plant Disease Management .....	3	Spring
PLNTPTH 5685 Plant Disease Diagnosis .....	3	Summer
OR PLNTPTH 5060 Practical Experiences in Plant Health: Insects and Diseases of Plants .....	2	Summer
ENTMLGY 5600 Principles and Applications of Integrated Pest Management .....	3	Spring
ENTMLGY 5800 Pesticide Science .....	3	Autumn & Spring
ENR 5270 Soil Fertility .....	3	Autumn
HCS 5422 Biology and Management of Weeds and Invasive Plants .....	3	Autumn
HCS 5621 Physiology of Cultivated Plants .....	3	Autumn
HCS 5887 Introduction to Experimental Design .....	3	Autumn
OR HCS 8887 Techniques of Experimental Design .....	4	Spring

PLNTPTH 7300 (1 cr, Spring) OR ENTMLGY 7300 (1 cr Autumn) Plant Health Management Seminar  
*Students should enroll during your final semester, but all students are welcome and encouraged to attend weekly seminars via Zoom (usually Monday evenings)*

**Targeted Electives: Choose one of the following from Plant Pathology/Entomology (2-3 credits):**

PLNTPTH 5110/ENTMLGY5110 Ecology and Management of Pathogens and Insects		
Affecting Trees in Forest and Urban Environments .....	3	Spring (odd yrs)
PLNTPTH 5120 Diseases of Ornamental Plants .....	2	Autumn
PLNTPTH 5130 Turfgrass Diseases and Integrated Turf Health Management.....	3	Autumn
PLNTPTH 5140 Diseases of Field Crops .....	2	Autumn
PLNTPTH 5150 Diseases of Fruits and Vegetables .....	2	Spring
ENTMLGY 5608 Turfgrass Insect and Mite Pests - Identification, Biology, and Management ...	2	Spring
ENTMLGY 5609 Landscape Ornamental Plant Insect and Mite Pests - ID, Biology and Mgt. ...	3	Autumn
ENTMLGY 5500 Biological Control of Arthropod Pests .....	3	Spring



**Individual studies or internship (4-5 credits):**

ENTMLGY 6193	Individual Studies .....	4-5
PLNTPTH 6193	Individual Studies .....	4-5
ENTMLGY 6502	Mentored Extension Experience in Entomology .....	1-3
PLNTPTH 8902	Mentored Extension/Outreach in Plant Pathology .....	4-5

**Directed Electives**

Through careful consultation with their advisors, students must take elective courses that best reflect their personal interest. The following are courses supporting different “fields of interest”. Other classes may also be considered to meet individual needs of student. These courses should be approved by the student’s advisor.

AEDECON 4330	The Sustainable Economy: Concepts and Methods .....	3
AEDECON 4597.01	Problems and Policies in World Population, Food, and Environment .....	3
AEDECON 4310	Environmental and Resources Economics .....	3
AEDECON 5250	Commodity Futures and Options Markets .....	2
AEDECON 5330	Benefit Cost Analysis .....	3
AEDECON 6010	Applied Microeconomics I .....	4
AEDECON 6020	Applied Microeconomics II .....	4
ACEL 7300	Advanced Methods of Teaching ... ..	3
ACEL 7320	Adult Learning and Professional Development .....	3
ACEL 7700	Documenting Change through Evaluation and Accountability .....	3
ACEL 7230	Strategic and Program Planning for Visionary Change .....	3
ACEL 8420	Leadership and Administration in Agriculture and Extension Education .	3
EEOB 5460	Physiological Ecology .....	3
ENR 5265	Characterization of Soil in Field and Laboratory Sampling .....	2
HCS 5602	Ecology of Agriculture .....	3
HCS 5825	Plant Breeding .....	3
HCS 7821	Environmental Physiology of Managed Plant Systems.....	3
Advanced Statistics Course (agreed upon by SAC) .....		3

*In addition to the courses listed above, the following courses may also be taken as electives:*

ENTMLGY 6410	Insect Ecology and Evolutionary Processes .....	3
ENTMLGY 7910	The Nature and Practice of Science .....	2
PLNTPTH 5040	Science of Fungi: Mycology Lecture .....	3
PLNTPTH 5041	Science of Fungi: Mycology Lab .....	1
PLNTPTH 6001	Advanced Plant Pathology .....	2
ENR 5600	Sustainable Agriculture and Food Systems .....	3

**Final Exam**

Following the requirements of the Graduate School, each student will complete a final Master’s Examination which will include **both** a written and oral examination. The examination will evaluate the student’s proficiency and understanding of his/her field of study, with emphasis on the topic selected from students special projects/internships.