THE OHIO STATE UNIVERSITY

College of Food, Agricultural, and Environmental Sciences

Department of Plant Pathology
Department of Entomology
mphm.osu.edu

Master in Plant Health Management Curriculum Advising Sheet	PSM PROFESSIONAL SCIENCE MASTER'S
MPHM Graduate Chairs	
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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.

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

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.

Core Courses (24 - 25 credits):		Credits	Semester
PLNTPTH 5603	Plant Disease Management	3	Spring
PLNTPTH 5685	Plant Disease Diagnosis	2	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
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 8887	Experimental Design	4	Autumn
OR HCS 5887	Introduction to Experimental Design	3	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

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
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	Greenhouse Plant Health and Pest Management	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 Teaching Methods	3
ACEL 7320	Adult Learning and Professional Development	
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
ACEL 8835	Methods in Teaching Agriculture	2
EEOB 5460	Physiological Ecology	3
ENR 5265	Characterization of Soil in Field and Laboratory Sampling	2
HCS 5602	Ecology of Agriculture	3
HCS 7625	Plant Breeding and Biotechnology	3
HCS 7821	Advanced Crop Physiology	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 5420	Insect Behavior Mechanisms and Function	3
ENTMLGY 6410	Insect Ecology and Evolutionary Processes	3
ENTMLGY 6704	Systems Analysis from Molecules to Ecosystems	2
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	3
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.