

**Doctor of Plant Health Program - Curriculum**  
**University of Nebraska–Lincoln**

Graduate level courses across multiple disciplines, extensive internships and a research project make up the requirements for the Doctor of Plant Health degree. Internships for credit can be internal or external to the university, such as with the private sector, non-governmental organizations and state or federal government. Research projects may be with university personnel or off-campus collaborators. Research projects and comprehensive exam are to be determined by the student's Supervisory Committee. Students with an appropriate background should expect to complete this program within four years. \* *All classroom courses unless noted with a 'd' for distance or 'd/c' when offered via both distance and classroom*

Course #	Title	Cr. Hrs.	d/c*	Credit
<b><i>Plant Pathology Foundations (Core)</i></b>				<b>16</b>
PLPT 801	Biology of Plant Pathogens	3		
PLPT 802	Ecology and Management of Plant Pathogens	3		
PLPT 866	Phytopathogenic nematodes	3		
PLPT 867	Plant Associated Microbes	4		
PLPT 965	Plant virology	3		
<b><i>Entomology Foundations (Core)</i></b>				<b>16-17</b>
ENTO 800	Insect Biodiversity	4		
ENTO 806	Insect ecology	3	d/c	
ENTO 813	Biological control of pests	3	d	
ENTO 817	Pest management systems	3		
Choose 1	ENTO 801	Insect physiology	d/c	
	ENTO 820	Insecticide Toxicology	d/c	
<b><i>Weed Science Foundation (Core)</i></b>				<b>7</b>
AGRO 826	Invasive Plants ( <i>required only if equivalent Weed Science course not taken as undergraduate. If taken, credited as elective only</i> )	(3)		
AGRO 896	Interplant Competition	3		
<b><i>(plus 4 cr. from the following or other weed related courses, with permission)</i></b>				
AGRO 812	Crop and Weed Genetics	1	d	
AGRO 822	Integrated Weed Management	1	d	
AGRO 823	Herbicide Action in Plants	1		
AGRO 896	Regional Weed Science Contest	1-2		
AGRO 896	Pest Resistance Management	2	d	
<b><i>Plant Science Foundation (Core)</i></b>				<b>12</b>
AGRO 806	Plant Ecophysiology: Theory and Practice	4		
AGRO 807	Plant-Water Relations	3		
AGRO 811	Crop Genetic Engineering	2	d	
AGRO 835	Agroecology	3		
<b><i>Soil Science Foundation (Core)</i></b>				<b>9</b>
AGRO 824	Plant Nutrition and Nutrient Management	3	d	
AGRO 855	Soil Chemistry & Mineralogy	3		
AGRO 860	Soil Microbiology	3		

<b>Quantitative Tools (take a minimum of 8 cr. from the following)</b>				<b>8</b>
AGRO 819	Applications of remote sensing in agriculture	4		
NRES 812	Introduction to GIS	4		
NRES 818	Introduction to remote sensing	4		
STAT 801	Statistical methods in Research	4		
STAT 802	Design & Analysis of Research Studies	4		
<b>Policy &amp; Leadership (take a minimum of 3 cr. from the following)</b>				<b>3</b>
AECN 856	Environmental law	3	d	
AECN 857	Water law	3	d	
NRES 813	Environmental leadership	3	d	
ALEC 800	Overview to Program Planning	3	d/c	
<b>Internships</b>				
DPLH 695	Plant Health Internship (2-or more experiential opportunities,			
<b>Other Requirements</b>				<b>17</b>
	<u>Practicum in research methods (research project completed</u>	4		
	<u>Plant Health Diagnosis (to include the following):</u>	7		
AGRO 896	Integrated Plant Health Diagnostics	1	} →	
PLPT 892	Plant Pathology Diagnosis	2		
ENTO 896	Arthropod Diagnosis	2		
	Two additional diagnostics credits required	2		
DPLH 691	Colloquium (1 cr/yr; 2 yrs)			2
DPLH 691	Integrated Plant Health Management (capstone)			4
<b>Electives chosen to meet students professional goals</b>				<b>11-12</b>

**Total Credits Required for Degree**

**100**