

## **PLPA ENROLLED STUDENT TRANSCRIPT EVALUATION**

**NAME:**

**ADMISSION DATE:**

**LOCAL ADDRESS:**

**PHONE #:**

**LAB ROOM #:**

**LAB PHONE #:**

**MAJOR PROFESSOR:**

**ROTATION 1:** \_\_\_\_\_

**ROTATION 2:** \_\_\_\_\_

**ROTATION 3:** \_\_\_\_\_

<b><u>CORE COURSES TO BE TAKEN</u></b>	<b><u>QUARTER</u></b>
PLPA 200 – Fungal Diseases of Plants (4)	
PLPA 203 – Bacterial Diseases of Plants (4)	
PLPA 204 – Viral Diseases of Plants (4)	
PLPA 206 – Nematode Diseases of Plants (3)	
PLPA 250 – Seminar in Plant Pathology (1)	
MUST ENROLL EACH QUARTER	
PLPA 260 – Current Research in Plant Pathology and Nematology (1)	
MUST ENROLL EACH QUARTER	
<b>HIGHLY RECOMMENDED COURES</b>	
PLPA 231 – Physiology of Plant Diseases	
PLPA 265 – A Colloquium on the Principals of Plant Pathology	
<b>In addition to the core courses students must also pick a track and follow the specific curriculum as outlined in the attached forms.</b>	

## **BACTERIAL/MOLECULAR “TRACK” IN PH.D. PROGRAM**

<b>DEFICIENCIES: Students lacking background in biochemistry or molecular biology should consider taking the following courses:</b>		
<b>QUARTER TO BE TAKEN</b>		
BCH 110A, B	General Biochemistry	(4+4 credits)
BIOL 107	Molecular Biology (Lecture) Biochem 110C	(4)
BIOL 109	Laboratory in Cell and Molecular Biology	(5)

<b>All students encouraged to select classes from the following:</b>		
PLPA 231	Physiology of Disease	(3)
PLPA 240	Field Plant Pathology	(1)
PLPA 246	Diagnosis of Plant Disease	(2)
PLPA 265	Principals of Plant Pathology	(3)
<b>Plant Related:</b>		
BCH 183	Plant Biochemistry	(3)
BPSC 143	Plant Physiology	(4)
BPSC 237	Plant Cell Biology	(4)
BPSC 233	Molecular Responses of Plant to the Environment	(4)
BPSC 231	The Plant Genome	(4)
<b>Microbe -Related:</b>		
PLPA 215	Genetics of Fungi	(3)
PLPA 230	Physiology of Fungi	(3)
BIOL 221	Microbial Genetics	(4)
SLSC 111	Microbiology & Biochemistry of Soils	(5)
PLPA 219	Molecular Virology	(3)
<b>General:</b>		
BIOL 200B	Cell, Molecular & Developmental	
	Biology (Molec. Genetics)	

## **NEMATOLOGY “TRACK” IN THE PH.D. PROGRAM**

**DEFICIENCIES:** Students with deficiencies may consider taking the following courses:

**QUARTER TO BE TAKEN**

PLPA 134                      Biology of Fungi    (4)

PLPA 120                      Introduction to Plant Pathology    (4)

**All students encouraged to select classes from the following:**

**Nematode-related courses:**

NEM 159                      Biology of Nematodes    (3)

NEM 205                      Nematode Identification (1 Week Summer)    (1)

NEM 226                      Nematode Taxonomy & Comparative Morphology    (4)

PLPA 231                      Physiology of Plant Disease    (3)

NEM 240                      Field Nematology    (1)

PLPA 246                      Diagnosis of Plant Disease    (2)

NEM 250                      Seminar in Nematology    (1)

NEM/PLPA 260                      Curr. Research in Plant Pathology/Nematology    (1)

**Additional Courses of Possible Interest:**

PLPA 235                      Epidemiology of Plant Disease    (4)

BIOL 107                      Molecular Biology    (4)

BIOL/ENTM 112                      Insect Systematics    (2)

BIOL 117                      Introductory Population & community Ecology    (4)

BIOL/ENTM 127                      Insect Ecology (alternate to BIOL 117)    (4)

BIOL 151                      Invertebrate Zoology    (5)

BIOL 157                      Parasitology    (5)

BPSC 150                      Principles of Plant Breeding    (4)

BPSC 236                      Plant Microtechnique    (4)

SLSC 102                      Soil Conditions & Plant Growth    (4)

ENSC 120                      Soil Ecology    (4)

SLSC 111                      Microbiology and Biochemistry of Soils    (5)

SLSC 211                      Soil Microbiol Ecology    (3)

**Plant Related Courses:**

BPSC 231                      The Plant Genome    (4)

BPSC 237                      Plant Cell Biology    (4)

BPSC 233                      Molecular Responses of Plants to Environment    (4)

BPSC 236                      Plant Microtechnique    (4)

**Insect Related Courses:**

ENTM 124                      Economic Entomology    (5)

<b>Biochem, Cell and Molecular, Genetics Courses:</b>		
BCH 182	Lab Recomb, DNA Techniques	(4)
BCH 210	Biochem. of Macro -Molecules	(3)
BIOL 200B	Cell and Molecular Biology	(4)
BIOL 221	Microbial Genetics	(4)
Note Also:		
BPSC 201	Methods in Plant Biology	

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## **VIROLOGY “TRACK” IN THE PLANT PATHOLOGY PH.D. PROGRAM**

**Students in this track should have an above-average understanding of the nature and role of nucleic acids and proteins in cell biology. Familiarity with recombinant DNA techniques will be beneficial.**

**DEFICIENCIES: Students with deficiencies may consider taking the following courses:**

### **QUARTER TO BE TAKEN**

PLPA 123	Comparative Virology	(4)
PLPA 120	Introduction to Plant Pathology	(4)
BIOL 107A	Molecular Biology	(4)

**Students are strongly encouraged to also take:**

PLPA 219	Molecular Plant Virology	(3)
PLPA 207	Anthropod Vectors	(4)
PLPA 231	Physiology of Plant Disease	(3)
PLPA 240	Field Plant Pathology	(1)
PLPA 246	Diagnosis of Plant Disease	(2)
PLPA 265	Principles of Plant Pathology	(3)

**Additional courses of interest include:**

BPSC 132	Plant Anatomy	(5)
BPSC 135	Plant Cell Ultrastructure	(3)
BPSC 143	Plant Physiology	(4)
BPSC 150	Principles of Plant Breeding	(4)
BPSC 153	Plant Biotechnology	(4)
ENTM 100	General Entomology	(4)
BCH 183	Plant Biochemistry	(3)
BCH 110	General Biochemistry	(4+4+4)
BIOL 109	Lab in Cell & Molecular Biology	(5)
BIOL 121	Microbiology	(3+3)
BIOL 128	Immunology	(3)
PLPA 134	Biology of Fungi	(4)
PLPA 235	Epidemiology of Plant Disease	(4)
PLPA221	Chemical Control of Plant Disease	(3)

**Plant Related Courses:**

BPSC 231	The Plant Genome	(4)
BPSC 233	Molecular Responses of Plants to the Environment	(4)
BPSC 236	Plant Microtechnique	(4)
BPSC 237	Plant Cell Biology	(4)

<b>Insect Related Courses:</b>		
ENTM 124	Economic Entomology	(5)
<b>Biochem, Cell and Molecular, Genetics Courses:</b>		
BCH 182	Lab Recomb, DNA Techniques	(4)
BCH 210	Biochem. of Macro -Molecules	(3)
BIOL 200B	Cell and Molecular Biology	(4)
BIOL 221	Microbial Genetics	(4)
BPSC 201	Methods in Plant Biology	

## MYCOLOGY “TRACK” IN THE PLANT PATHOLOGY PH.D. PROGRAM

<b>DEFICIENCIES : Students with deficiencies may consider taking the following courses:</b>		
		<b>QUARTER TO BE TAKEN</b>
PLPA120	Introduction to Plant Pathology	(4)
STAT 120 AB	Experimental Techniques for Biologists	(4+4)

<b>If a mycology background is not established we also encourage the following courses:</b>		
PLPA 240	Field Plant Pathology	(1)
PLPA 220 AB	Morphology and Taxonomy Fungi	(4+4)
PLPA 245	Field Mycology	(1)
PLPA246	Diagnosis of Plant Diseases	(2)
PLPA265	A Colloquium on the Principles of Plant Pathology	(3)
PLPA 231	Physiology of Plant Disease	(3)
<b>The following are strongly recommended courses. Students should take as many of these enrichment courses as their time, research project, and Advisor will allow. At least half of these courses should be taken to properly prepare a student to complete in the specialized areas of mycology study.</b>		
PLPA 230	Physiology of Fungi or 201 Microbial Physiology	(3)
PLPA 215	Genetics of Fungi	(3)
PLPA 221	Chemical Control of Plant Diseases	(3)
PLPA 231	Physiology of Plant Diseases	(3)
PLPA 235	Epidemiology of Plant Diseases	(4)
PLPA 245	Field Mycology	(1)
PLPA 246	Diagnosis of Plant Diseases	(2)
PLPA 265	A colloquium on the Principles of Plant Pathology	(3)
SLSC 111	Microbiology and Biochemistry of Soils	(5)
SLSC 102	Soil Conditions and Plant Growth	(4)
SLSC 211	Soil Microbial Ecology	(3)