## PLP5115C: Citrus Pathology

## **COURSE LECTURE SCHEDULE Fall 2023**

Week	Date	Topic	Lecturer
Module I	Introductory to	citrus pathology	
Week 1	August 28	Overview of citrus pathology course	Killiny
	September 1	Genomics of the Origin and Evolution of Citrus	Gmitter
Week 2	September 4	Holiday	
	September 8	History of major citrus diseases	Killiny
Module	II Citrus viral ar	nd viroid diseases	
Week 3	September 11	Characteristics of viral and viroid pathogens	Levy
	September 15	Case study 1: Citrus tristeza (Citrus tristeza closterovirus)	Levy
		ases and Epidemiology	
Week 4 <i>Quiz 1</i>	September 18	Fungal diseases of fruit and foliage	Dewdney
	September 22	Paper discussion	Dewdney
Week 5	September 25	Management of fungal and bacterial diseases	Dewdney
	September 29	Mid-term Exam	
Week 6	October 2	Epidemiology of citrus diseases	Dewdney
	October 6	Homecoming	
	IV Citrus Bacter	·	
Week 7	October 9	Characteristics of bacterial pathogens (Eubacteria and Mollicutes)	
		Case study 1: Citrus greening (Candidatus Liberibacter asiaticus)	77.11.
	0 + 1 12	Disease development and insect transmission	Killiny
	October 13	Guest Lecture 1: New Approaches to Control Huanglongbing	Batuman
Week 8	October 16	Case study 2: Citrus stubborn (Spiroplasma citri)	Killiny
		Case study 3: Citrus variegated chlorosis ( <i>Xylella fastidiosa</i> )	Killiny
	October 20	Guest lecture 2: Nutritional therapy of Huanglongbing	Vashisth
Week 9	October 23	Guest lecture 3: Role of rootstock in citrus tolerance to HLB	Albrecht
Quiz 2		Antibiotic therapy of HLB	Albrecht
	October 27	Guest Lecture 4: The use of particle films and shading to manage citrus diseases.	Vincent
Week 10	October 30	Case study 4: Citrus Canker (Xanthomonas citri)	Wang
	November 3	Term papers discussion	
	V Citrus Root Pa		
Week 11 Quiz 3	November 6	Case study 1: Phytophthora Diseases. (Foot rot, root rot, brown rot, gummosis, and	
		Phytophthora-Diaprepes (PD) complex)	17.11.
	N 10	Case study 2: Huanglongbing (Candidatus Liberibacter asiaticus)	Killiny
Week 12	November 10 November 13	Holiday  Coop attudy 2. Citava memoto des	Dungan
		Case study 3: Citrus nematodes ses to abiotic and biotic stresses	Duncan
Module	November 17	Metabolic responses to citrus pathogens and their vectors	Killiny
Week 13	November 20	Volatile organic compounds responses to citrus pathogens and their vectors	
Quiz 4	November 20	Deciphering the Role of Citrus Metabolites in HLB Symptom Development	Killiny Killiny
	November 24	Holiday	ixuuy
Module V		pulation for citrus disease resistance	
Week 14	November 27	Virus-induced gene silencing and Expression vectors	Killiny
	December 1	Transgenic plants and CRISPR/Cas system	Dutt
Week 15	December 4	Reading day	
	December 8	Reading day	
	December 11	Final Exam	