

Appendix 4 – Advising Sheet
PROPOSED HCS PHD Course Program 2022
Department of Horticulture and Crop Science

Date Program approved by SAC: _____

Date Received by HCS GSC: _____

Student: _____ Advisor: _____

Inst. & Major of BS: _____

Inst. & Major of MS: _____

Student Advisory Committee: _____

Use this form in combination with the PhD degree description

COURSE	TITLE	CREDIT	Term	Grade	TOTAL
		Completion by student:			
TAKE ONE CLASS IN 2 OF THE 3 FOCUS AREAS:					
FOCUS 1 - PLANT BIOCHEMISTRY/PHYSIOLOGY/METABOLOMICS (select one course)					
HCS 5621	Physiology of Cultivated Plants – 3 credits (Prereq-grad standing)	AU	3		
HCS 5622	Plant Biochemistry – 3 credits (Prereq-grad standing) -	SP			
HCS 7821	Environmental Physiology of Managed Plant Systems – 3 credits (Prereq HCS 5621) every other year SP				
Petition:					
FOCUS 2 - PLANT GENETICS/BIOTECHNOLOGY/BREEDING (select one course)					
HCS 5325	Plant Genetics – 3 credits (Prereq-grad standing)	AU	2-3		
HCS 5625	Applied Plant Biotechnology – 2 credits (Prereq HCS 4325 or 5325)	SP			
HCS 5825	Plant Breeding – 2 credits (Prereq HCS 4325 or 5325)	SP			
HCS 8825	Advanced Plant Breeding – 3 credits (Prereq HCS 7625 or Perm. of Inst.)	SP			
Petition					
FOCUS 3 – PLANT SYSTEMS/PRODUCTION/ECOLOGY (select one course)					
HCS 5100	Advanced Cropping Systems – 3 credits (Prereq-grad standing)	SP	2-3		
HCS 5200	Advanced Horticultural Principles and Practices – 3 credits (Prereq-grad standing)	AU			
HCS 5306	Sustain. Veg. Prod. Pract.: Planning, Growing and Marketing – 3 credits (Prereq-Perm. of instructor)	SP			
HCS 5411	Grain, Oilseed, and Fiber Crops – 3 credits (Prereq-Perm. of instructor)	SP			
HCS 5412	Agroecology of Grasslands and Prairies – 3 credits (Prereq-grad standing)	SP			
HCS 5420	Environmental impacts of Crop-Livestock Systems – 3 credits (Prereq-grad standing)	AU			
HCS 5422	Principles of Weed Ecology and Management – 3 credits (Prereq-grad standing)	AU			
HCS 5450	Vegetable Crop Production and Physiology – 3 credits (Prereq-grad standing)	AU			
HCS 5460	Fruit Crop Physiology and Production – 3 credits (Prereq-grad standing)	AU			
HCS 5602	Ecology of Agriculture – 3 credits (Prereq-grad standing)	SP			
HCS 5670	Golf Courses and the Environment – 2 credits (Prereq-grad standing)	SP			
Petition:					
ADDITIONAL REQUIRED COURSES:					
EXPERIMENTAL DESIGN					
HCS 8887	Techniques of Experimental Design – (Prereq HCS 5887) -	SP	4		
PROFESSIONAL DEVELOPMENT					
HCS 7001	Graduate Student Professional Development	AU/SP	1		
SEMINAR (enroll twice)					
HCS 7890	Colloquium presentation	AU/SP	1		
HCS 7890	2 nd enrollment (non-presenting)	AU/SP	1		

Continues next page.

CURRENT TOPICS (enroll twice)						
HCS 8830	Current Topics	varies	1			
HCS/Other	Current Topics	varies	1			
ELECTIVES (minimum of 9 credits of HCS graduate courses) – see elective list suggestions						
HCS/Other	Graduate Courses – NOT counting courses fulfilling above requirements		9			
	Total Required Course Hours (all courses listed above)		22-24			
RESEARCH HOURS						
HCS 8998	Pre-candidacy Research (1-18) – multiple terms/hrs.	SU/AU/SP	Var.			
HCS 8999	Post-candidacy Research (1-18) – multiple terms/hrs.	SU/AU/SP	Var.			
Coursework required by SAC (not listed above)						
HCS/other			Var.			
TOTAL GRADUATE HOURS COMPLETED (REQUIRED MINIMUM):			(80)			
Publication Submission to Peer-Reviewed Journal: _____ Date of submission: _____						