

**Appendix 4 – Advising Sheet**  
**HCS PHD Course Program 2025**  
**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	*Term	Credit	Completed by Student:		
				Year	Grade	TOTAL
<b>TAKE ONE CLASS IN 2 OF THE 3 FOCUS AREAS:</b>						
<b>FOCUS 1 - PLANT BIOCHEMISTRY/PHYSIOLOGY/METABOLOMICS (select one course)</b>						
HCS 5621	Physiology of Cultivated Plants – (Prereq-grad standing)	AU	3			
HCS 5622	Biochemical Processes in Cultivated Plants – (Prereq-grad standing)	SP				
HCS 7600	Metabolomics, Principles and Practice – (Prereq-permission of instructor)	SP				
HCS 7821	Environmental Physiology of Managed Plant Systems - (Prereq HCS 5621)	SP (odd)				
Petition: _____						
<b>FOCUS 2 - PLANT GENETICS/BIOTECHNOLOGY/BREEDING (select one course)</b>						
HCS 5325	Plant Genetics – (Prereq-grad standing)	SP	2-3			
HCS 5625	Applied Plant Biotechnology – (Prereq HCS 4325 or 5325)	SP				
HCS 5825	Plant Breeding – (Prereq HCS 4325 or 5325)	AU				
HCS 8825	Advanced Plant Breeding – (Prereq HCS 7325 or Perm. of Inst.)	AU				
Petition _____						
<b>FOCUS 3 – PLANT SYSTEMS/PRODUCTION/ECOLOGY (select one course)</b>						
HCS 5100	Advanced Cropping Systems – (Prereq-grad standing)	SP	2-3			
HCS 5200	Advanced Horticultural Principles and Practices – (Prereq-grad standing)	AU <sup>COL</sup>				
HCS 5306	Sustain. Veg. Prod. Pract.: Planning, Growing and Marketing (Prereq-Perm. of Instructor)	SP <sup>COL</sup>				
HCS 5320	Floriculture Crop Production – (Prereq-grad standing)	AU				
HCS 5411	Grain, Oilseed, and Fiber Crops –(Prereq-Perm. of Instructor)	SP <sup>COL</sup>				
HCS 5412	Agroecology of Grasslands and Prairies –(Prereq-grad standing)	AU <sup>COL</sup>				
HCS 5420	Environmental Impacts of Crop-Livestock Systems –(Prereq-grad standing)	SP (even)				
HCS 5422	Principles of Weed Ecology and Management – (Prereq-grad standing)	AU <sup>COL/Vir</sup>				
HCS 5450	Vegetable Crop Production and Physiology – (Prereq-grad standing)	AU				
HCS 5460	Fruit Crop Physiology and Production – (Prereq-grad standing)	AU				
HCS 5602	Ecology of Agriculture – (Prereq-grad standing)	SP				

HCS 5670	Golf Courses and the Environment – (Prereq-grad standing)	SP (even)				
Petition:						
<b>ADDITIONAL REQUIRED COURSES:</b>						
<b>EXPERIMENTAL DESIGN</b>						
HCS 8887	Techniques of Experimental Design – (Prereq HCS 5887 or Perm. of Instructor)	SP	4			
<b>PROFESSIONAL DEVELOPMENT</b>						
HCS 7001	Graduate Student Professional Development	AU/SP	1			
<b>SEMINAR (enroll twice)</b>						
HCS 7890	Colloquium presentation	AU/SP	1			
HCS 7890	2 <sup>nd</sup> enrollment (non-presenting)	AU/SP	1			
<b>CURRENT TOPICS (enroll twice)</b>						
HCS 8830	Current Topics varies		1			
HCS 8830	Current Topics varies		1			
<b>ELECTIVES (minimum of 9 credits of graduate courses) – see elective list suggestions</b>						
HCS/Other	Graduate Courses – NOT counting courses fulfilling above requirements		9			
<b>Total Required Course Hours (all courses listed above)</b>			<b>22-24</b>			
<b>RESEARCH HOURS</b>						
HCS 8998	Pre-candidacy Research (1-18) – multiple terms/hrs.	AU/SP/SU	Var.			
HCS 8999	Post-candidacy Research (1-18) – multiple terms/hrs.	AU/SP/SU	Var.			
<b>Coursework required by SAC (not listed above)</b>						
HCS/other			Var			
<b>TOTAL GRADUATE HOURS COMPLETED (REQUIRED MINIMUM)</b>			<b>(80)</b>			
Publication Submission to Peer-Reviewed Journal: _____						
Date of submission: _____						

\*Term is subject to change/verify with current schedule

HCS-GSC Form 12-19-2024