

Appendix 4 – Advising Sheet
HCS MS Course Program 2025

Date Program approved by SAC: _____

Department of Horticulture and Crop Science

Date Received by HCS GSC: _____

___ MS Thesis ___ MS Non-thesis

Student: _____ Advisor: _____

Inst. & Major of BS: _____

Student Advisory Committee: _____

Use this form in combination with the MS degree description.

COURSE	TITLE			Completed by Student:		
				*Term	Credit	Year
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 – (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:						
FOCUS 2 - PLANT GENETICS/BIOTECHNOLOGY/BREEDING (select one course)						
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						
FOCUS 3 – PLANT SYSTEMS/PRODUCTION/ECOLOGY (select one course)						
HCS 5100	Advanced Cropping Systems – (Prereq-grad standing)	SP	2-3			
HCS 5200	Advanced Horticultural Principles and Practices – (Prereq-grad standing)	AU ^{COL}				
HCS 5306	Sustain. Veg. Prod. Pract.: Planning, Growing and Marketing (Prereq-Perm. of Instructor)	SP ^{COL}				
HCS 5320	Floriculture Crop Production – (Prereq-grad standing)	AU				
HCS 5411	Grain, Oilseed, and Fiber Crops –(Prereq-Perm. of Instructor)	SP ^{COL}				
HCS 5412	Agroecology of Grasslands and Prairies –(Prereq-grad standing)	AU ^{COL}				
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 ^{COL/Vir}				
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:						
ADDITIONAL REQUIRED COURSES:						
EXPERIMENTAL DESIGN						
HCS 5887	Techniques of Experimental Design – (Prereq-grad standing))	AU	3			
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			
CURRENT TOPICS (enroll once)						
HCS 8830	Current Topics varies		1			
ELECTIVES (minimum of 6 credits of graduate courses)						
HCS/Other	Graduate Courses – NOT counting courses fulfilling above requirements		6			
Total Required Course Hours (all courses listed above)			17-19			
RESEARCH HOURS						
HCS 7999	MS Research (1-18) – multiple terms/hrs.	AU/SP/SU	Var.			
Coursework required by SAC (not listed above)						
HCS/other			Var			
TOTAL GRADUATE HOURS COMPLETED (REQUIRED MINIMUM)			(30)			

*Term is subject to change/verify with current schedule

HCS-GSC Form 12-19-2024