

**Appendix 4b – MS Advising Sheet**

**PROPOSED HCS MS Course Program 2022**

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: \_\_\_\_\_

Inst. & Major of MS: \_\_\_\_\_

Student Advisory Committee: \_\_\_\_\_

*Use this form in combination with the PhD degree description*

COURSE	TITLE	CREDIT	Term	Grade	TOTAL	
<b>Completion by student:</b>						
<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 – 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:						
<b>FOCUS 2 - PLANT GENETICS/BIOTECHNOLOGY/BREEDING (select one course)</b>						
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:						
<b>FOCUS 3 – PLANT SYSTEMS/PRODUCTION/ECOLOGY (select one course)</b>						
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:						
<b>ADDITIONAL REQUIRED COURSES:</b>						
<b>EXPERIMENTAL DESIGN</b>						
HCS 5887	Introduction to Experimental Design (Prereq-grad standing)	AU	3			
<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			

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CURRENT TOPICS					
HCS 8830	Current Topics	varies	1		
ELECTIVES (minimum of 6 credits of HCS graduate courses) – see elective list suggestions					
HCS/Other	Graduate Courses – NOT counting courses fulfilling above requirements		6		
	<b>Total Required Course Hours (all courses listed above)</b>		<b>17-19</b>		
RESEARCH HOURS					
HCS 7999	MS Research (1-18) – multiple terms/hrs.	SU/AU/SP	Var.		
Coursework required by SAC (not listed above)					
HCS/other			Var.		
<b>TOTAL GRADUATE HOURS COMPLETED (REQUIRED MINIMUM):</b>			<b>(80)</b>		