

Appendix 4b – MS Advising Sheet

HCS MS Course Program 2023/2024

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 | Completion by Student: | | |
|---|--|--------|--------|------------------------|-------|-------|
| | | | | Year | Grade | TOTAL |
| 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) | 3 | AU | | | |
| HCS 5622 | Biochemical Processes in Cultivated Plants – (Prereq-grad standing) | | 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) | 2-3 | AU | | | |
| HCS 5625 | Applied Plant Biotechnology – (Prereq HCS 4325 or 5325) | | AU | | | |
| HCS 5825 | Plant Breeding – (Prereq HCS 4325 or 5325) | | AU | | | |
| HCS 8825 | Advanced Plant Breeding – (Prereq HCS 7625 or Perm. of Inst.) | | AU '24 | | | |
| Petition | | | | | | |
| FOCUS 3 – PLANT SYSTEMS/PRODUCTION/ECOLOGY (select one course) | | | | | | |
| HCS 5100 | Advanced Cropping Systems – (Prereq-grad standing) | 2-3 | SP | | | |
| HCS 5200 | Advanced Horticultural Principles and Practices – (Prereq-grad standing) | | AU | | | |
| HCS 5306 | Sustain. Veg. Prod. Pract.: Planning, Growing and Marketing – (Prereq-Perm. of instructor) | | SP | | | |
| HCS 5411 | Grain, Oilseed, and Fiber Crops –(Prereq-Perm. of instructor) | | SP | | | |
| HCS 5412 | Agroecology of Grasslands and Prairies –(Prereq-grad standing) | | SP | | | |
| HCS 5420 | Environmental Impacts of Crop-Livestock Systems –(Prereq-grad standing) | | SP | | | |
| HCS 5422 | Principles of Weed Ecology and Management – (Prereq-grad standing) | | AU | | | |
| 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 | | | |
| Petition: | | | | | | |
| ADDITIONAL REQUIRED COURSES: | | | | | | |
| EXPERIMENTAL DESIGN | | | | | | |
| HCS 5887 | Techniques of Experimental Design – (Prereq-grad standing) | 3 | AU | | | |
| PROFESSIONAL DEVELOPMENT | | | | | | |
| HCS 7001 | Graduate Student Professional Development | 1 | AU/SP | | | |
| SEMINAR (enroll twice) | | | | | | |
| HCS 7890 | Colloquium presentation | 1 | AU/SP | | | |
| HCS 7890 | 2 nd enrollment (non-presenting) | 1 | AU/SP | | | |
| CURRENT TOPICS (enroll twice) | | | | | | |
| HCS 8830 | Current Topics | 1 | | | | |
| ELECTIVES (minimum of 6 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) | 17-19 | | | | |
| RESEARCH HOURS | | | | | | |
| HCS 7999 | MS Research (1-18) – multiple terms/hrs. | Var. | AU/SP/SU | | | |
| Coursework required by SAC (not listed above) | | | | | | |
| HCS/ other | | Var. | | | | |
| | | | | | | |
| | | | | | | |
| | TOTAL GRADUATE HOURS COMPLETED (REQUIRED MINIMUM): | (30) | | | | |
| Publication Submission to Peer-Reviewed Journal: _____ Date of submission: _____ | | | | | | |