

**Appendix 4 – Advising Sheet**  
**HCS PHD Course Program 2024**  
**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 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                    |        |                       |       |       |
| 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                    |        |                       |       |       |
| Petition:   |  |                       |        |                       |       |       |

| ADDITIONAL REQUIRED COURSES:  |  |          |              |  |  |  |
|---|--|----------|--------------|--|--|--|
| <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)</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: _____<br>Date of submission: _____ |  |          |              |  |  |  |

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

HCS-GSC Form 4-26-2024