3010 Tropical/Subtropical Horticulture (3) S-E Prereq.: HORT 2050 or equivalent. Current status of cultivation throughout the world; production practices; postharvest handling; international trade of tropical/subtropical horticultural crops.

4012 Special Topics in Horticulture (1-3) V Prereq.: consent of instructor. May be taken for a max. of 6 sem. hrs. of credit when topics vary. Lab/field trip may be required. Subject areas not covered in other horticulture courses.

4020 Greenhouse Production and Management (4) F 3 hrs. lecture; 2 hrs. lab. Physiology and greenhouse production of floriculture crops with hands-on learning in production technology, scheduling, economics, and regulation of crop growth and development and general physiology of flowering pot plants.

4040 International Horticulture (3) S Prereq.: HORT 2050 or equivalent. Overview of the horticulture industry worldwide. Production, handling, marketing, and international trade issues presented in a global context.

4050 Horticultural Science Education (3) F,S 2 hrs. lecture; 2 hrs. lab. May be taken for a max. of 6 sem. hrs. of credit. Methodology for teaching horticultural science education and service education laboratory experiences in local schools.

4051 Processing of Fruits and Vegetables (3) S-O Prereq.: FDSC 1049 or HORT 2050 or equivalent. 3 hrs. lecture; 2 hrs. lab. Methods of processing horticultural crops; includes canning, freezing, dehydration, and fermentation.

4064 Principles of Plant Breeding (4) See AGRO 4064.

4071 Nursery Management (3) F-O Prereq.: BIOL 3060 or equivalent. 2 hrs. lecture; 2 hrs. lab. Required field trips. Principles and practices involved in commercial production, management, and marketing of nursery crops.

4083 Principles and Practices in Olericulture (4) F-E Prereq.: AGRO 2051 and HORT 2050. 3 hrs. lecture; 3 hrs. lab. Required field trips. Review of U.S. commercial vegetable industry; seed handling, field microclimate modification, transplant handling, stand establishment, influence of soil chemical and physical properties, and greenhouse vegetable production.

4085 Principles and Practices in Fruit and Nut Production (4) S-O Prereq.: HORT 2050 or equivalent. 3 hrs. lecture; 2 hrs. lab. Required field trips. Physiological principles involved in growing pomological crops; overview of state, U.S., and worldwide fruit and nut industry; marketing and production strategies.

4086 Turfgrass Management (3) S-E Prereq.: BIOL 1402, AGRO 2051 or equivalent. 2 hrs. lecture; 3 hrs. lab. Required field trips. Also offered as AGRO 4086. Turfgrass identification and adaptation; establishment and maintenance of high quality turf areas; turfgrass pests and their control.

4090 Golf Course Operations (4) S Prereq.: HORT 4086. 3 hrs. lecture; 2 hrs. lab. Golf course management; construction; cultural practices; environmental concerns.

4096 Postharvest Physiology (4) S-E Prereq.: PLHL 3060. 3 hrs. lecture; 2 hrs. lab. Physiological changes associated with storage and handling of fruits and vegetables; current practices used in extending shelf-life; basic and applied laboratory analysis techniques.

7050 Plant Tissue Culture (4) Prereq.: BIOL 4024, PLHL 3060. HORT 2061. 2 hrs. lecture; 6 hrs. lab. The in vitro culture of selected higher vascular plants; media preparation; cell, callus, and organ cultures; protoplast isolation, culture, and fusion; embryo genesis and plantlet regeneration and haploid culture.

7070 Advanced Plant Breeding (4) S-E See AGRO 7070.

7071 Advanced Plant Genetics (4) S-O Prereq.: AGRI 2072 or equivalent. See also AGRO 7071. Theory and practical application of cytogenetics, extrachromosomal inheritance, and molecular techniques in plant genetics.

7074 Quantitative Genetics in Plant Improvement (3) See AGRO 7074.

7913 Seminar (1) May be taken for a max. of 4 hrs. of credit. Topics of current interest in horticulture.

8000 Thesis Research (1-12 per sem.) “S”/“U” grading.

8900 Research Problems in Horticulture (3) Prereq.: consent of department head. May be taken for a max. of 6 hrs. of credit when topics vary. Students minorin in horticulture may take this course only once. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) “S”/“U” grading.