ENVIROMENTAL
HORTICULTURE

ALS 5934 Graduate Professional Development Seminar 2 Credits
Grading Scheme: S/U
Presentations and group discussion of topics essential to enhance awareness, personal satisfaction, and professional success of graduate students

BCH 5045 Graduate Survey of Biochemistry 4 Credits
Grading Scheme: Letter Grade
Introduction to plant, animal, and microbial biochemistry for graduate students who have not had biochemistry. Integration and regulation of biochemical processes stressed; limited discussion of some biochemical techniques.
Prerequisite: inorganic chemistry, organic chemistry, biology.

HOS 5117C Horticultural Plant Morphology and Identification 3 Credits
Grading Scheme: Letter Grade
Principles and practices of horticultural plant identification using vegetative and floral morphology.
Prerequisite: for graduate students who have not taken ORH 3513C.

HOS 5432 Advanced Nutritional Management of Ornamental Crops 3 Credits
Grading Scheme: Letter Grade
Techniques for determining, interpreting, and managing the nutritional status of ornamental plants in the greenhouse, nursery or landscape. Topics include: meter selection and calibration, water analysis, substrate/soil analysis, report interpretation and writing, diagnosis and recommendations.
Prerequisite: SWS 3022/3022L, ORH3253C, or consent of instructor

HOS 5515C Greenhouse and Nursery Operations 3 Credits
Grading Scheme: Letter Grade
Principles involved in managing nurseries. Interaction among media components, irrigation, and nutrition. Weekend field trips may be required.
Prerequisite: for graduate students needing introduction to the principles of planning, organizing, and managing production operations. Not open to students who have taken ORH 3254.

HOS 6070 Plant Materials for Conservation and Restoration 3 Credits
Grading Scheme: Letter Grade
Understand how to protect, select, produce, and establish native plants for ecological restoration. Learn the scientific basis for guidelines on planning revegetation, selecting plant material, and formulating successful conservation and restoration plans for rare, threatened and endangered species.

HOS 6523 Research and Development in Turfgrass Science 3 Credits
Grading Scheme: Letter Grade
Principles and practices of turfgrass improvement and management, including propagation, nutrition, physiology, soil management, and experimental methods applied to turf research.

HOS 6905 Problems in Horticultural Science 1-4 Credits, Max 8 Credits
Grading Scheme: Letter Grade
Independent study.

HOS 6910 Supervised Research 1-5 Credits, Max 5 Credits
Grading Scheme: S/U
Supervised Research

HOS 6931 Horticultural Science Seminar 1 Credit, Max 3 Credits
Grading Scheme: S/U
Oral presentation of material in one of the following areas: literature review, related to student’s research; research results; or published paper, of relevance to horticulture. Subject matter determined by instructor. Offered in spring.

HOS 6932 Special Topics 1-4 Credits, Max 8 Credits
Grading Scheme: Letter Grade
Study of contemporary research in horticultural science.

HOS 6940 Supervised Teaching 1-5 Credits, Max 5 Credits
Grading Scheme: Letter Grade
Supervised Teaching

HOS 6941 Practicum in Horticultural Science 2-4 Credits, Max 8 Credits
Grading Scheme: Letter Grade
Supervised and individual work in professional areas of horticulture.
Prerequisite: admission is limited to graduate students majoring in horticultural science.

HOS 6971 Research for Master's Thesis 1-15 Credits
Grading Scheme: S/U
Research for Master's Thesis

HOS 6991 Evolution, Eco-physiology and Global Importance of Seeds 4 Credits
Grading Scheme: Letter Grade
Critical analysis of literature related to seed evolution; how seeds interact with biotic and abiotic environments to maintain viability and complete germination; and multiple roles of seeds in geo-political systems, economics and humanity. Students lead discussions throughout the semester and present a final synthesis project on a topic of interest.
Prerequisite: Basic knowledge in plant sciences, botany, and biology or equivalent courses in related fields.

HOS 7979 Advanced Research 1-12 Credits
Grading Scheme: S/U
Research for doctoral students before admission to candidacy. Designed for students with a master's degree in the field of study or for students who have been accepted for a doctoral program. Not appropriate for students who have been admitted to candidacy.

HOS 7980 Research for Doctoral Dissertation 1-15 Credits
Grading Scheme: S/U
Research for Doctoral Dissertation

ORH 5026C Advanced Annual and Perennial Gardening 3 Credits
Grading Scheme: Letter Grade
Identification, selection, use, and management of annuals, perennials, herbs, and ornamental grasses in the landscape.
Prerequisite: for graduate students who have not taken ORH 4808C.

ORH 5086 Advanced Golf and Sports Turf Management 2 Credits
Grading Scheme: Letter Grade
Golf course and sports turf management.
Prerequisite: for graduate students who have not taken ORH 4223.

ORH 5282 Orchid Biology and Culture 3 Credits
Grading Scheme: Letter Grade
Orchid plants and flowers, including nomenclature, breeding, seed culture, harvesting, and handling.
Prerequisite: for graduate students who have not taken ORH 4280; or consent of instructor.
ORH 5817C Advanced Florida Native Landscaping 3 Credits
Grading Scheme: Letter Grade
Introduction to nomenclature, effective use, and design elements of plants native to Florida.
Prerequisite: ORH 1520 or 3513.

PLS 5222C Propagation of Horticultural Crops 3 Credits
Grading Scheme: Letter Grade
Theoretical and practical applications of macro- and micropropagation techniques for higher plants.
Prerequisite: for students who have not taken PLS 3221.

PLS 5241C Advanced Plant Micropropagation 4 Credits
Grading Scheme: Letter Grade
Practical application of plant tissue for clonal propagation of horticultural crops.
Prerequisite: PLS 3221 or consent of instructor.

PLS 5405 Advanced Composting Technology 3 Credits
Grading Scheme: Letter Grade
Humification of organic matter under controlled conditions.
Prerequisite: for graduate students who have not taken PLS 4404C; or consent of instructor.