

ENVIRONMENTAL 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 6295 Methods in Plant Biotechnology 3 Credits

Grading Scheme: Letter Grade

Plant biotechnology is a highly interdisciplinary field with new advances and techniques emerging at a fascinating speed. This graduate level course is designed as a comprehensive exploration to established and new methodologies used in the field of Plant Biotechnology.

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 Fundamentals of Seed Biology 4 Credits

Grading Scheme: Letter Grade

Students critically analyze pertinent seed biology literature, lead discussions, engage in student-centered mini-lectures, and complete a self-directed project throughout the semester to expand their seed biology knowledge.

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: Junior standing.

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.