HISTORY OF ART

See Art.

HORTICULTURE

College of Agriculture and Natural Resources

101. Principles of Horticulture
Fall, Spring. 4(3-2) Not open to students with credit in HRT 201.
Principles of horticultural science and horticultural crop production, as related to fruits, vegetables, flowers and landscape plants.

205. Greenhouse Structures and Crop Production
(418.) Fall. 3(2-2)
Commercial greenhouse operations, structures, equipment and crop production procedures.

208. Greenhouse Cut Flower Production
Fall. 4(3-2)
Commercial production of cut flowers including scheduling, culture practices, equipment, production and marketing.

212. Ornamental Flowering Trees
Fall, Winter, Spring. 4(3-2) HRT 101, Juniors.
Principles of tree production. Emphasis on tree planting, soil management, fertilizing, pruning, thinning, and grafting.

320. Tree Fruit Production
Fall. 4(3-2) HRT 101, Juniors.
Commercial production of tree fruit crops. Emphasis on tree planting, soil management, fertilizing, pruning, thinning, and grafting.

325. Ornamental Plant Management
Spring. 4(3-2) HRT 101, HRT 211, HRT 212.
Transplanting and maintenance of landscape plants subject to stresses of urban environment. Development of annual maintenance specifications. Identification and evaluation of herbaceous annuals, biennials, and perennials for landscape.

326. Herbaceous Ornamental Plants
Summer. 4(3-3) HRT 101 or BOT 205 or approval of department.
Identification, evaluation, and utilization of annual, biennial, and herbaceous perennials for landscape. Includes bulbs, herbs, grasses, ferns, and cultivated plants.

327. Landscape Design: A Horticultural Approach
Spring. 4(3-2) HRT 212 or concurrently.
Landscape design techniques. Plant selection and adaptation. Client and designer interaction. Laboratory emphasizes elementary drafting techniques, landscape plan preparation and interpretation.

329. Special Problems
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 12 credits. Approval of department.
Individual work on a field, laboratory or library research problem of special interest to the student.

331. Selected Topics (MTC)
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 12 credits if different topics are taken. Approval of department.
Selected topics in horticultural science of current interest and importance.

350. Floral Design
Spring. 3(1-4) Junior majors and approval of department.
Principles of floral design and the care and handling of materials. Creation of corsages, terraria, tropical planters, and home, hospital and novelty arrangements.

402. Principles of Weed Control for Horticultural Crops
Spring. 4(3-2) CEM 143, BOT 301.
Principles underlying weed control practices for horticultural crops. Weed biology and factors involved in biological, cultural, mechanical and chemical control. Collection of 40 weed species required.

408. Principles of Plant Breeding
Winter. 4(3-2) CSS 250. Interdepartmental with and administered by the Department of Crop and Soil Sciences.
Application of genetics and other sciences to breeding and improvement of agronomic and horticultural crops.

410. Fruit Tree Physiology I
Winter of odd-numbered years. 4(4-0) Juniors.
Physiological effects of nutrition, moisture, light, temperature and culture as related to tree fruit crops.

412. Fruit Tree Physiology II
Winter of odd-numbered years. 3(3-0) Juniors.
Physiology of flowering and fruit development in woody plants with special reference to chemical and cultural methods of manipulation.

416. Handling and Storage of Horticultural Crops
Winter of even-numbered years. 4(3-2) Juniors.
Biological principles involving physical movement of fresh products from farm to consumer; physiological processes affecting maturity, quality and condition; selection and use of handling, storage, and transport facilities.

417. Controlled Plant Environment
Fall. 3(3-0) HRT 101, HRT 212 or concurrently, BOT 301 or BOT 414.
Control of greenhouse environment and its effect on growth and production of horticultural crops.

434. Greenhouse Container-Grown Plant Production
Winter. 4(3-2) HRT 205, HRT 417; approval of department.

435. Commercial Bedding Plant Production
Spring of odd-numbered years. 4(3-2) HRT 205.
Production and marketing of bedding plants. Includes germination, soil, transplanting, environmental factors, production practices, major species, structures, equipment, systems, problems, economics and marketing. One field trip required.

440. Nursery Management
Fall. 3(2-2) Juniors.
Management practices applied to wholesale nursery production and marketing. One all-day field trip to visit nurseries is required.

452. Warm Season Vegetables
Spring. 4(3-2) HRT 101, BOT 301, CSS 210.
Warm season crops with emphasis on botany, taxonomy, morphology, growth processes, production, harvesting, handling, quality and composition. Field trip required.
456. Cool Season Vegetables
Fall, Winter, Spring, Summer, 3(3-2)
HRT 101, BOT 301, CSS 210.
Cool season crops with emphasis on botany, taxonomy, morphology, growth processes, production, harvesting, handling, quality and composition. Field trip required.

460. Tropical Vegetables
Spring of odd-numbered years, 3(3-0)
HRT 101 or approval of instructor.
Culture of tropical vegetables in commercial and subsistence cropping systems. Role in human nutrition, income generation and international development.

462. Tropical Fruits and Spices
Spring of even-numbered years, 3(3-0)
HRT 101 or approval of instructor.
Culture of tropical fruits and spices in commercial and subsistence cropping systems. Role in human nutrition, income generation and international development.

801. Research Procedures in Plant Science
Winter, 3-2 Approval of department.
Ordinary approach to problems of biological research in relation to basic principles of research.

808. Physiology of Horticultural Crops
Winter of even-numbered years, 3(3-2)
BOT 415.
Physiology of grafting, juvenility, flowering of woody plants, fruiting, senescence, bud and seed dormancy as related to horticultural crops. Emphasis on critical review of literature.

814. Plant Breeding and Genetics Seminar
Winter, 1-2 May enroll for a maximum of 2 credits. Approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry, Administered by the Department of Crop and Soil Sciences.

815. Selected Topics in Plant Breeding and Genetics
Fall, Winter, Spring, Summer, 2 to 5 credits. May enroll for a maximum of 12 credits if different topics are taken. Approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Crop and Soil Sciences.

816. Special Problems in Plant Breeding and Genetics
Fall, Winter, Spring, Summer, 1 to 3 credits. May enroll for a maximum of 8 credits. Approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry.

821. Genetic Concepts in Plant Breeding
Fall, 3(3-0) CSS 250 or ZOL 441, Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Crop and Soil Sciences.
Genetic structure of plant populations, gene action, inbreeding, outbreeding, heterosis, linkage and recombination, genetic architecture of traits, genetic distance.

822. Plant Breeding Systems
Winter, 3(3-0) CSS 521, STT 422, Interdepartmental with the departments of Crop and Soil Sciences, and Forestry.
Breeding systems for improvement of self and cross pollinated and of vegetatively propagated crops. The genetic basis for parent selection.

823. Plant Breeding Methods
Spring, 3(3-0) HRT 522, STT 423.
Interdepartmental with the departments of Crop and Soil Sciences, and Forestry.
Methods, strategies and practices in organization and operation of plant breeding programs. Emphasis on practical application of classical, modern and futuristic approaches to plant breeding.

825. Post Harvest Physiology
Winter of odd-numbered years, 3(3-2)
Biochemical and biophysical changes associated with the maturation, ripening and senescence of harvested horticultural plants.

830. Special Research Problems
Fall, Winter, Spring, Summer, 1 to 12 credits. May enroll for a maximum of 12 credits. Approval of department.

831. Selected Topics (MTC)
Fall, Winter, Spring, Summer, 1 to 4 credits. May enroll for a maximum of 12 credits if different topics are taken. Approval of department.
Selected topics in horticultural science of current interest and importance.

836. Evolution of Crop Plants
Fall of even-numbered years, 3(3-0)
CSS 821 or approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry.
Cultural and biological aspects of evolution under domestication; origin and diversity of cultivated plants.

838. Tissue Culture for Plant Breeding
(840). Winter of even-numbered years, 3(2-2) BOT 414, CSS 821. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry.
The application of plant cell, protoplast and tissue culture methodologies and principles to crop improvement.

844. Plant Organelle Genetics
Winter of odd-numbered years, 3(3-0)
Approval of department. Interdepartmental with Genetics and the departments of Botany and Plant Pathology, Crop and Soil Sciences, and Forestry.
Organization, structure, function, heredity, molecular biology and manipulation of chloroplasts and mitochondrial. Biological interactions between the nucleus and organelles.

850. Plant Interactions in Agroecosystems
Winter of odd-numbered years, 3(3-0)
BOT 450, BUC 401, CSS 402.
Interactions between plants affecting mortality and plastic responses in horticultural, agronomic, and forest systems, including interference and symbiosis.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

940. Theoretical Population Genetics
Winter of even-numbered years, 4(4-0)
MTH 113, STT 422, CSS 821. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Forestry.
Discussion of mathematical theories in population genetics and experimental works on natural and laboratory populations.

941. Quantitative Genetics in Plant Breeding
Spring of even-numbered years, 4(4-0)
STT 423, CSS 833 or approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Crop and Soil Sciences.

944. Physiological Genetics
Winter of odd-numbered years, 3(3-0)
BOT 413, CSS 821. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Forestry.
Control of variation in higher plants including adaptive physiology, quantitative genetics, growth correlation, biochemical genetics, hybrid physiology, and genealogy.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

HOTEL, RESTAURANT AND INSTITUTIONAL MANAGEMENT

COLLEGE OF BUSINESS AND GRADUATE

HRI

SCHOOL OF BUSINESS

ADMINISTRATION

102. Introduction to the Service Industries
Fall, 3(3-0) Not open to Seniors.
Management careers and opportunities in hotel, motel, food service, health facilities, club, recreational centers, tourism and other public hospitality businesses. Includes front office practice. Local field trip required.

203. Service Industry Accounting
Fall, Spring, 4(4-0) ACC 202; not open to Seniors.

Hotel, Restaurant and Institutional Management — Descriptions of Courses

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