Courses are subject to revision and final approval.

HISTORY

823. Seminar in Chinese History
Fall, Spring. 3(3-0). May reenroll for a maximum of 15 credits.
Selected topics in modern and pre-modern Chinese history.
QA: HST 897

840. Seminar in the History of International Relations
Fall, Spring. 3(3-0). May reenroll for a maximum of 15 credits.
Seminar in the history of international relations since the era of the French and Industrial Revolutions.
QA: HST 873

848. Seminar in British History
Fall, Spring. 3(3-0). May reenroll for a maximum of 15 credits.
Topics in British history as chosen by the professor. Research on appropriate related problems.
QA: HST 848

859. Seminar in Comparative History
Fall, Spring. 3(3-0). May reenroll for a maximum of 12 credits.
Topics in comparative history; analysis of themes or problems from different cultures and countries; methods and concepts in the comparative approach to history.

860. Seminar in Women's HST
Fall, Spring. 3(3-0). May reenroll for a maximum of 16 credits.
Seminar in the history of women and gender.

870. Seminar in African-American History
Fall, Spring. 3(3-0). May reenroll for a maximum of 15 credits.
Social, political, economic, and cultural topics and the intersection of race, class, and gender.

890. Independent Study
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 9 credits.
R: Approval of the Department.
Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing the regular course offerings.

990. Doctoral Independent Study
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 9 credits.
R: Approval of the Department
Special projects, directed reading, and research arranged by an individual doctoral candidate and a faculty member in areas supplementing the regular course offerings.

995. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 24 credits.
R: Approval of the Department

HORTICULTURE

100. Horticulture: Plants and People
Spring. 3(2-2)

201. Principles of Horticulture I
Fall. 3(3-0)
P: BOT 105 or BS 110 or BS 111 or concurrently.
QP: BOT 205 ORBS 210 ORBS 211 QA: HRT 201 HRT 223

202. Principles of Horticulture II
Spring. 3(3-0)
P: HRT 201 or concurrently.
QP: BOT 205 ORBS 210 ORBS 211 QA: HRT 202 HRT 224

221. Principles of Horticulture Laboratory
Fall, 1(0-3)
P: HRT 201 or concurrently.
Laboratory fee required.

222. Principles of Horticulture Laboratory
Spring. 1(0-3)
P: HRT 202 or concurrently.
Laboratory fee required.

321. Greenhouse Structures and Management
Fall. 3(0-3)
Planning and operation of a commercial greenhouse. Structure, coverings, heating, cooling, ventilation, irrigation, fertilization, root media, and pest control. Field trips required.
QP: HRT 205

225. Basic Floral Design
Spring. 2(2-4)
QP: HRT 242

225A. Advanced Floral Design
Spring. 2(2-4)
P: HRT 225 A or concurrently.
Marketing, selling, and designing flowers for weddings, funerals, and other special events. Identification, handling, and design use of fresh flowers and other materials. Laboratory fee required. Second half of semester.
QP: HRT 242

310. Nursery Management
Fall. 3(0-3)
P: BOT 205, HRT 211, HRT 212, MTH 105. R: Not open to freshmen and sophomores.
Management, practices applied to wholesale and retail nursery production and marketing. Field trip required.
QP: HRT 201 HRT 211 HRT 212 QA: HRT 440

311. Landscape Design and Management Specifications
Spring. 4(2-2) Interdepartmental with the Department(s) of Landscape Architecture.
P: HRT 211; HRT 212 or concurrently.
Landscape design techniques, spatial organization, plant selection, plant and site interaction. Relationship between design, construction, and maintenance. Preparation of planting and maintenance specifications. Cost estimation.
QP: HRT 211 HRT 212 QA: HRT 327

322. Floriculture Crop Production I
Fall. 3(1-4)
Commercial production of floriculture greenhouse crops with emphasis on flowering and potted foliage plants and on seed germination. Field trips required.
QP: HRT 205 QA: HRT 434 HRT 499 HRT 495

323. Floriculture Crop Production II
Spring. 3(1-4)
Commercial production of bedding plants and cut flowers. Finishing procedures for selected potted plant crops. Field trips required.
QP: HRT 205 QA: HRT 434 HRT 499 HRT 495

355. Floral Distribution and Marketing
Spring. 3(2-2) P: HRT 322.
Business operations of wholesale and retail floral outlets. Identification, care, and handling of commercial cut flowers and foliage. Field trips required.
QP: HRT 201 QA: HRT 248

330. Commercial Fruit Production
Fall. 4(3-2)
P: BOT 201, HRT 202. R: Not open to freshmen and sophomores.
Commercial aspects of tree and small fruit production. Approaches, cherries, peaches, grapes, blueberries, brambles and strawberries. Field trips required.
QP: HRT 201 HRT 221 BOT 301 QA: HRT 319 HRT 320

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.

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Descriptions of Courses

Courses are subject to revision and final approval.

HORTICULTURE

394A*. Retail Florist Practicum
Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits.
P: HRT 202, HRT 225B. R: Open only to juniors and seniors. Approval of department and application required. Maximum of 8 credits may be earned in HRT 394A and HRT 490. Customer relations. Floral design, flower buying, holiday planning. Advertising, display. Financial recordkeeping. Power tools and handling.
QP: HRT 242 QA: HRT 332

421*. Physiology of Plants in Controlled Environments
Fall 3(3-0)
P: BOT 301, HRT 201 or HRT 221. R: Not open to freshmen and sophomores. Physiological response of plants to light, temperature, and gas exchange measurements. Flowering and vegetative growth. Characteristics of natural and artificial lighting sources.
QP: HRT 206 BOT 301 QA: HRT 417 HRT 434

431*. Reproductive Physiology of Tree Fruits
Spring of even-numbered years. 2(2-0)
QP: HRT 320 BOT 301 QA: HRT 412

440*. Warm Season Vegetables: Physiology and Production
Spring of even-numbered years. 3(2-3)
P: BOT 301 or concurrently; HRT 202. R: Not open to freshmen and sophomores. Warm season vegetables emphasizing horticulture, physiology, growth, development, and commercial production. Fresh market and processing industries. Field trips required.
QP: HRT 201 BOT 301 QA: HRT 452

442*. Cool Season Vegetables: Physiology and Production
Fall of even-numbered years. 3(2-3)
P: BOT 301 or concurrently; HRT 202. R: Not open to freshmen and sophomores. Cool season vegetables emphasizing horticulture, physiology, growth, development, and commercial production. Fresh market and processing industries. Field trips required.
QP: HRT 201 BOT 301 QA: HRT 456

460*. World Vegetable Crops
Spring of odd-numbered years. 3(3-0)
P: BOT 106 or BS 110. R: Not open to freshmen and sophomores. Importance of vegetables in human nutrition, income generation, and international development. Unique cultural and climatic requirements for production and marketing of vegetables grown worldwide.
QP: HRT 201 ORBS 1100/ORB 205 QA: HRT 460

462*. Tropical and Subtropical Fruits
Fall of even-numbered years. 3(2-0)
P: BOT 105 or BS 110. R: Not open to freshmen and sophomores. Climatic requirements, horticulture, morphology, production practices, uses, and economic and cultural importance.
QP: HRT 201 ORBT 205 QA: HRT 462

468*. Woody Plant Physiology
Spring. 3(3-0) Interdepartmental with the Department(s) of Forestry, horticulture, and the Department(s) of Botany, Soil Science, and Biochemistry. Physiology of carbon utilization. Effects of water, temperature, nutrition and light on sapin, vegetative and reproductive growth in woody plants.
P: BOT 301 QA: HRT 411

489*. Handling and Storage of Horticultural Crops
Fall of odd-numbered years. 3(2-3)
P: BOT 105 or BS 110. R: Not open to freshmen and sophomores. Biological principles involved in quality maintenance of horticultural products. Control of deterioration during harvesting, handling, transport, and storage.
Field trip required.
QP: BOT 206 ORBS 210 QA: HRT 416

486*. Biotechnology in Agriculture: Applications and Ethical Issues
Fall of odd-numbered years. 3(3-0) Interdepartmental with the Department(s) of Philosophy, Crop and Soil Sciences, Forestry.
P: BS 111 or BOT 106. R: Not open to freshmen and sophomores. Current and future role of biotechnology in agriculture: scientific basis, applications. Environmental, social, and ethical concerns.
QP: BOT 206 ORBS 311 QA: HRT 488 PHL 486 CSS 486 FOR 486

488*. Horticultural Management
Spring. 3(2-2)
P: HRT 202; EC 201 or EC 202; one 400 level HRT course X. R: Integration of physiological, genetic, economic and production principles to develop a horticultural business plan. Management techniques. Environmental impacts of business and production practices.
QP: HRT 201 HRT 211 HRT 210 HRT 202

490*. Independent Study in Horticulture
Fall, Spring. 1 to 2 credits. May reenroll for a maximum of 6 credits.
P: HRT 202 R: Approval of department; application required
Independent study of horticulture on a field, library or library research program of special interest to the student.
QP: HRT 201 HRT 221 QA: HRT 330

491*. Selected Topics in Horticulture
Fall, Spring. 1 to 3 credits. May reenroll for a maximum of 6 credits.
P: HRT 202 R: Juniors and above
Selected topics in horticulture of current interest and importance to students and the horticulture industry.
QA: HRT 331

601*. Research Procedures in Plant Science
Spring. 3(2-1)
R: Approval of department.
Orderly approach to plant research with special emphasis on the specific method and development of hypotheses with design and analysis of experiments.
QA: HRT 330

602*. Growth and Development of Horticultural Crops
Spring of even-numbered years. 3(2-2)
Physiology of grafting, juvenile, flowering, fruiting, senescence, bud and seed dormancy, apical dominance of horticultural crops. Emphasis on critical review of literature.
QP: HRT 330

603*. Postharvest Physiology
Spring of odd-numbered years. 3(2-2)
Physiology, biochemistry and molecular biology of maturation, ripening and senescence of harvested horticultural crop.
QP: HRT 335

814*. Plant Breeding and Genetics Seminar
Fall, Spring, Summer. 1(1-0) May reenroll for a maximum of 10 credits.
Interdepartmental with the Department(s) of Crop and Soil Sciences, Forestry.

Student seminar to cover plant breeding and genetics subject not considered in formal courses. Course will give students experience in review, organization, oral presentation and defense of analysis of subjects in the literature.
QP: HRT 335

815*. Selected Topics in Plant Breeding and Genetics
Fall, Spring, Summer. 1 to 2 credits. May reenroll for a maximum of 6 credits.
Interdepartmental with the Department(s) of Crop and Soil Sciences, Forestry.

Selected topics in plant breeding
QP: HRT 335

819*. Advanced Plant Breeding
Fall. 3(3-0) Interdepartmental with the Department(s) of Crop and Soil Sciences, Forestry.
P: CSS 250 or 301, 241
Genetic expectations resulting from different breeding strategies with cross- and self-pollinated crop plants. Includes germplasm collections, mapping populations, and modifications of reproductive biology useful for crop improvement.

831*. Selected Topics in Horticulture
Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 3 credits.
Selected topics in horticultural science of current interest and importance.
QP: HRT 331

835*. Plant Evolution and the Origin of Crop Species
Fall of even-numbered years. 3(3-0) Interdepartmental with the Department(s) of Crop and Soil Sciences, Forestry.

Cultural and biological aspects of evolution under domestication; origin and diversity of cultivated plants.
QP: HRT 336

899*. Master's Thesis Research
Fall, Spring, Summer. (X) May reenroll for a maximum of 15 credits.
Master's thesis research

999*. Doctoral dissertation research
Fall, Spring, Summer. (X) May reenroll for a maximum of 18 credits.
Doctoral dissertation research

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