Descriptions — History

of Courses

839. African Research
(IDC 839) Fall, Winter, Spring. 2 to 4 credits. May reenroll for a maximum of 8 credits. Graduate standing or approval of instructor. Interdepartmental with African Languages and the departments of Anthropology, Educational Administration, Geography, Political Science, and Sociology. Administered by the Department of Anthropology. African-related archival and field research topics and methodologies viewed from perspective of relevant social science and humanistic disciplines associated with the African Studies Center.

848. Readings
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 8 credits. Graduate standing or approval of instructor. Interdepartmental with African Languages and Graduate standing or approval of instructor. Readings in African History: Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

849. Readings in Medieval History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

850. The Industrial Revolution in Europe
Fall, Winter, Spring. 2 to 12 credits. May reenroll for a maximum of 16 credits. Graduate standing; approval of department. Supervised individual reading on special topics and fields.

851A. Doctoral Seminar
Fall, Winter, Spring. 3(0-0) HST 901B.

851B. Doctoral Seminar
Fall, Winter, Spring. 3(0-0) HST 901C.

851C. Doctoral Seminar
Fall, Winter, Spring. 3(0-0) HST 901D.

852. Readings
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits. The preconditions that led to the momentous changes in agriculture and industry in Europe from 1700-1914.

853. Readings in Ancient History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits. Topics include the Old Regime, Enlightenment, French Revolution, Napoleonica Era, Industrial Revolution, Liberalism, revolutions of 1848 and Marxism.

854. Readings in Early Modern European History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

855. Readings in Medieval History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

856. Topical Readings
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

857. Readings in International Relations
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 20 credits.

858. Readings in African History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

859. Readings in Asian History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

860. Directed Reading
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 18 credits. Graduate students; approval of department. Supervised individual reading on special topics and fields.

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

862. Doctoral Research
Fall, Winter, Spring. Variable credit. Approval of department.

863. Readings in History of Art
Fall, Winter, Spring. 2-4 credits. May reenroll for a maximum of 20 credits.

864. Readings in Modern European History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 20 credits.

865A. Readings in Modern European History, 1750 to 1850
Fall. 4(4-0) Major works on significant themes in Modern European history from 1750 to 1850. Topics include nationalism, socialism and labor movements, economic growth, imperialism, World War I and Russian Revolution.

865B. Readings in Modern European History, 1850 to World War I
Winter. 4(4-0) Major works on significant themes in modern European history from 1850 to World War I. Topics include nationalism, socialism and labor movements, economic growth, imperialism, World War I and Russian Revolution.

865C. Readings in Modern European History, World War I to the Present
Spring. 4(4-0) Major works on significant themes in modern European history from World War I to the present. Topics include the Paris Peace Conference, fascism, Stalinism, World War II, emergence of superpowers, rebuilding of Europe, decolonization and European integration.

866. Readings in Russian History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 20 credits.

867. Readings in Asian History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 20 credits.

868. Readings in International Relations
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 20 credits.

869. Readings in African History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

870. Readings in Asian History
Fall, Winter, Spring. 4 credits. May reenroll for a maximum of 40 credits.

871. Directed Reading
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 16 credits. Graduate students; approval of department. Supervised individual reading on special topics and fields.

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. Approved through Winter 1990.

201. Principles of Horticulture
Spring. 4(3-2) BOT 206 or approval of department. Principles of horticultural science and production as related to fruits, vegetables, flowers and landscape plants. Principles of environmental and physiological factors to plant responses.

205. Greenhouse Structures and Crop Production
Fall. 3(2-0) Commercial greenhouse operations, structures, equipment and crop production procedures.

208. Greenhouse Cut Flower Production
Fall. 4(3-2)

209. Foliage Plants
Winter. 4(3-2)

211. Ornamental Trees and Narrow-leaved Evergreens
Fall. 4(3-2)

212. Ornamental Flowering Shrubs and Broad-leaved Evergreens
Spring. 4(3-2) HRT 211 or approval of instructor. Identification, adaptation and evaluation of species, deciduous shrubs, narrow-leaved evergreens and woody vines. Emphasis is on the aesthetic and functional uses of trees and shrubs in the landscape.

213. Commercial Plant Propagation
Winter. 4(3-2) HRT 201. Principles of plant propagation by seed, cuttage, layerage, and graftage employed by nurseries; use of growth regulators and environment; treatments in plant propagation.

242. Basic Floral Design
Fall. 4(3-2)

248. Floral Marketing
Winter. 3(2-0) HRT 201 or approval of instructor. Floral marketing practices including production, wholesale, and retail marketing channels. Field trips required.

319. Small Fruit Production
Winter. 3(3-0) HRT 201, BOT 205, BOT 301.

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320. **Tree Fruit Production**  
Fall. 4(3-2) HRT 201, Juniors.  
Commercial production of principle tree fruit crops of Michigan with emphasis on planting, soil management, fertilization, pruning, thinning, and grafting.

325. **Ornamental Plant Management**  
Spring. 4(3-2) HRT 201, 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) BOT 205 or approval of department.  
Identification, evaluation, and utilization of annual, biennial, and herbaceous perennial plants 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 use. Plant and site relationships. Client and designer intersection. Laboratory emphasizes elementary drafting techniques, landscape plan preparation and interpretation.

330. **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.

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.

405. **Principles of Plant Breeding**  
Winter. 4(3-2) CSS 359. 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 even-numbered years. 4(4-0) Juniors. BOT 301, HRT 201.  
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. HRT 201, BOT 301.  
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(0-0) HRT 205 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 of odd-numbered years. 4(3-2) HRT 205, HRT 417; approval of department.  
Flower crop physiology; management of container-grown plant production. One field trip required.

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

440. **Nursery Management**  
Fall. 3(2-0) Juniors.  
Management practices applied to wholesale nursery production and marketing. One all-day field trip to visit nurseries is required.

451. **Plant Molecular Genetics**  
Spring. 4(2-0) CSS 350 or ZOL 441.  
Interdepartmental with the departments of Crop and Soil Sciences and Forestry. Administered by the Department of Crop and Soil Sciences.  
Principles, concepts, and techniques of plant biotechnology. Recombinant DNA technology, plant molecular biology, transformation, and tissue culture in relation to plant improvement.

452. **Warm Season Vegetables**  
Spring of even-numbered years. 4(3-2) HRT 201, 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 of odd-numbered years. 4(3-2) HRT 201, 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. **World Vegetable Crops**  
Spring of odd-numbered years. 3(3-0) HRT 201 or approval of instructor.  
Role and importance of vegetables in human nutrition, income generation and international development. Unique cultural and climatic requirements for production and marketing of vegetables in commercial and subsistence cropping systems.

462. **Tropical Fruits and Spices**  
Spring of even-numbered years. 3(3-0) HRT 201 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.

501. **Research Procedures in Plant Science**  
Winter. 4(3-2) Approval of department.  
Orderly approach to problems of biological research in relation to basic principles of research.

508. **Physiology of Horticultural Crops**  
Winter of even-numbered years. 4(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**  
Fall. 1(1-0) May reenroll 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 (MTC)**  
Fall, Winter, Spring, Summer. 2 to 5 credits. May reenroll 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.  
Selected topics in plant breeding including: host-plant resistance, nutrition and quality, computerized records and data analysis, classical and molecular literature and strategies for improving field, horticulture and forestry crops.

816. **Special Problems in Plant Breeding and Genetics**  
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits. Approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Crop and Soil Sciences.  
Students may conduct research in a laboratory, greenhouse or field-plot on a selected subject or study selected published literature under the supervision of a faculty member.

817. **Plant Breeding Methods**  
(HRT 823.) Fall. 3(3-0) STT 422 or concurrently. Interdepartmental with the departments of Crop and Soil Sciences, and Forestry. Administered by the Department of Crop and Soil Sciences.  
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.

819. **Plant Breeding Systems**  
(HRT 822.) Winter. 3(3-0) CSS 821, STT 842. 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.
941. Quantitative Genetics in Plant Breeding
Spring of even-numbered years. 4(4-0) STT 423, CSS 317 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 621. Interdepartmental with the Department of 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 gynecology.

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

HOTEL, RESTAURANT AND INSTITUTIONAL MANAGEMENT - HRI

College of Business and Graduate School of Business Administration

102. Introduction to Hospitality Management
Winter. 4(4-0) Not open to Seniors. Survey of the sectors, segments and disciplines of the hospitality and tourism industries; of the nature of career opportunities; of the hotel and restaurant management and travel and tourism management curricula.

203. Hospitality Accounting
Fall, Winter, Spring. 4(4-0) CPS 115; HRI 102; ACC 202. Principles of accounting, both financial and managerial, applied to hospitality industry enterprises.

235. Physical Facilities Management (HRI 333.) Winter. 4(4-0) HRI 102. Planning and control of building systems in lodging and foodservice operations. Heat, light, power, water, ventilation, sanitation, sound, traffic; furniture, fixtures, and equipment.

237. Lodging Management
Winter. 4(4-0) HRI 102. Typical departments and logical functions in operation of transient, destination and convention lodging properties.

252. Professional Experience I
Fall, Winter, Spring. 1 credit. HRI 102 or HRI 201, approval of school. A written report based on the completion of 400 hours of approved professional work experience in the hospitality industry.