- 929. Seminar in Afro-American History Fall, Winter, Spring. 5 credits.
- 930. Seminar in American Urban History Fall, Winter, Spring. 5 credits.
- 952. Seminar in Ancient History Fall, Winter, Spring. 5 credits.
- 953. Seminar in Medieval History Fall, Winter, Spring. 5 credits.
- 954. Seminar in the Renaissance Fall, Winter, Spring. 5 credits.
- 955.Seminar in the French Revolution and Napoleon Fall, Winter, Spring. 5 credits.
- 957. Seminar in Russian History Before 1800 Fall, Winter, Spring. 5 credits.
- Seminar in Modern Russian 958. History Fall, Winter, Spring. 5 credits.
- 959. Seminar in East European History Fall, Winter, Spring. 5 credits.
- 960. Seminar in English History to Fall, Winter, Spring. 5 credits.
- 961. Seminar in Modern British History Fall, Winter, Spring. 5 credits.
- Seminar in Early Modern 965.European History Fall, Winter, Spring. 5 credits.
- 966. Seminar in Modern European History Fall, Winter, Spring. 5 credits.
- 967. Seminar in Modern European Intellectual History Fall, Winter, Spring. 5 credits.
- 968. Seminar in Modern French History Fall, Winter, Spring. 5 credits.
- 969. Seminar in Modern German Historu Fall, Winter, Spring. 5 credits.
- 973. Seminar in European International Relations Fall, Winter, Spring. 5 credits.
- 988. Seminar in West African History Fall, Winter, Spring. 5 credits.
- 989. Seminar in East African History Fall, Winter, Spring. 5 credits.
- 992, Seminar in China in the Traditional Period Fall, Winter, Spring. 5 credits.
- 993. Seminar in Modern China Fall, Winter, Spring. 5 credits.
- 996. Historical Interpretation Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 9 credits. Approval

of department. Open only to teaching assistants

Supervised direction in preparation and conduct of a teaching assignment required of all doctoral candidates. Student will work under the direction of a regular faculty member. Doctoral candidates must enroll in three terms of this course while fulfilling required teaching assign-

999. Research

Fall, Winter, Spring. Variable credit. Approval of department,

HISTORY OF ART

HORTICULTURE

HRT

College of Agriculture and Natural Resources

Fruits and Vegetables for Home and Garden

Spring. 3(2-2)

Principles and practices used in producing fruits and vegetables for the home in small gardens and containers; guidance in how to determine the edible quality of fresh fruits and vegetables.

211. Landscape Plants I

Fall. 4(1-6).

Adaptation, identification, and evaluation of Adaptation, identification, and evaluation of narrow-leaved evergreens, deciduous shrubs and trees, and woody vines, as they are used in the landscape. Emphasis is placed on the seasonal interest of the plants studied.

212. Landscape Plants II

Spring. 4(1-6)

Continuation of 211. Additional emphasis on the flowering characteristics of both deciduous and broad-leaved evergreen shrubs, trees and

320.Commercial Fruit Production Fall. 4(3-2) Juniors.

Commercial production of principal tree fruit crops of Michigan with emphasis on planting, soil management, fertilization, pruning, thinning, and grafting.

323. Indoor Plants and Flowers

Fall, Winter, Spring. 3(1-4) open to horticulture Majors.

Identification, culture, propagation and use of plants for homes, schools, offices and public buildings; principles of flower arrangement, con-struction of dish gardens and hanging baskets, and the forcing of bulbs,

325. Outdoor Plants and Flowers Spring. 4(3-2).

Identification, use and landscape maintenance of flowering annuals, perennials, roses, trees, shrubs and evergreens. The Horticulture gardens are utilized as an outdoor laboratory.

Special Topics in Horticulture

Fall, Winter, Spring, Summer. 1 to 9 credits. May re-enroll for a maximum of 18 credits. Approval of department.

Special studies in fields not covered in other horticulture courses; primarily independent

Principles of Weed Control

Fall. 3(2-2) Juniors. Interdepart-

mental and administered jointly with Crop Science.

Comprehensive study of principles underlying weed control practices, and factors involved in both mechanical and chemical control.

Principles of Plant Breeding

Spring. 4(3-2) CSC 250. Interde-partmental and administered jointly with Crop

Application of genetics and other sciences to breeding and improvement of agronomic and horticultural crops.

Fruit and Landscape Crop 411. Physiology I

Fall. 4(3-2) Juniors.

Physiological effects of moisture and nutritional environments related to fruit crops and woody perennial plants.

Fruit and Landscape Crop Physiology II

Winter of odd-numbered years, 4(3-2)

Juniors.

crops.

Physiology of flowering and fruit development in woody plants.

416. Handling and Storage of Horticultural Crops Winter, 4(4-0) 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. 4(2-4) BOT 301 or 414.

Control of greenhouse environment and its effect on growth and production of horticultural

419. Small Fruits

Winter. 3(3-0) Juniors.

Production, culture, utilization and physiology of strawberries, grapes, blueberries and raspberries.

421. Principles of Plant Propagation

Winter, 4(3-2) Juniors.

Principles of plant propagation by seed, cuttage, layerage, and graftage; scion and stock relation-ship; stocks for fruit and ornamental plants; practices employed by nurseries in propagation of plants.

424. Pesticide and Growth Regulating Chemicals for Horticultural Crops

Spring. 3(2-2) Juniors.

Spray and dust equipment and application; pesticide and growth regulating chemicals, their use in the growing of horticultural crops, and influence on the physiology of the plant.

432. Vegetable Crop Physiology

Spring. 4(3-2) May re-enroll for a maximum of 8 credits. Juniors.

Physiological principles involved in and related to the production of high quality vegetables.

433. Greenhouse Crop Production Management

Winter. 4(3-2) May re-enroll for a maximum of 8 credits.

Principles of floriculture crop physiology; includes control of environmental conditions, and management. Emphasis on cut flowers in evennumbered years; on container-grown plants in odd-numbered years.

Nursery Management 440.

Fall of even-numbered years. 3(2-2) Management practices employed by wholesale, retail and landscape nurseries. Field trips to nurscries required.

801. Research Procedures in Plant

Winter. 4(3-2) Approval of depart-

ment.

Orderly approach to problems of biological research in relation to basic principles of research.

Growth and Development Winter. 4(4-0) BOT 301 or 414; 808.

415

Effects of environment and treatment with growth regulating chemicals upon morphology and physiology of horticultural plants, and the roles of endogenous growth regulators in plant development.

809. Water and Nutritional Requirements

Fall. 4(3-2)

Factors affecting nutrition and methods and techniques for evaluating nutrient requirements for crop production.

810. Seminar

Fall, Winter. 1(0-1)

825. Post Harvest Physiology Spring. 4(3-2)

Biochemical and biophysical changes associated with the maturation, ripening and senescence of harvested horticultural plants.

Advanced Horticultural Studies

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

899. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

951Cytogenetics in Plant Breeding

Winter of odd-numbered years. 3(3-0) BOT 827, 919, or approval of department. Interdepartmental with and administered by Crop

Application of cytogenetic principles to plant breeding. Significance of recombination, role of induced mutations, polyploid, chromosome substitution, and aneuploid analyses as they apply to the field of plant breeding.

999. Research

Fall, Winter, Spring, Summer. Variable credit. Approval of department.

HOTEL, RESTAURANT AND INSTITUTIONAL MANAGEMENT HR!

College of Business

102. Introduction to the Service Industries

Fall, Spring. 3(3-0)

Management careers and opportunities in hotel, motel, food service, health facilities, club, recreational centers, tourism and other public hospitality businesses. Includes fi practice. Local field trip required. Includes front office

203. Service Industry Accounting

(203A) Fall, Winter. Summ odd-numbered years. 4(4-0) AFA 202. Summer of Principles of accounting applied to service industries. Financial statement analysis and cash flow concepts. Managerial accounting empha-

235. Service Industries Equipment and Utilities

(335.) Fall, Winter. Summer even-numbered years. 5(4-2) MTH 111. Summer of

Engineering in food and lodging industry, emphasizing utilities, machinery characteristics and environment.

245. Food Production Technology Fall, Spring. 5(4-2) HNF 102; MPH

200.

Interrelationships of the physical, biological and chemical principles relating to foods and supplies for the food service industry.

Survey of Food Services 255.

(355.) Winter. 4(4-2)

Organization and basic operation of various types of quantity food services. Fundamentals of meal planning, food production and service standards and techniques. Practice in evaluat-ing food service installations. Field trips required.

261. Dimensions of Tourism

Fall, Winter. 4(4-0) EC 201.

Forces which influence the international and domestic hospitality, leisure, travel and recreation industries. Socio-economic models and measurement of regional impact, demand and supply.

305. Lodging Management

Fall, Winter. Summer of even-numbered years. 4(4-0) MGT 302.

Functions of organization, supervision and activation in organizations providing overnight accommodations. Considerations of ethics, policics, trade associations, collective bargaining, employee training and emphasis on human relationships.

Health Facilities Externship

Fall, Winter, Spring, Summer. Zero credit [2 credits]†. 203, approval of health facilities management coordinator.

At least 800 hours of actual experience in junior-senior year, in a health care facility or related organization. Application of theoretical concepts to practical situations.

336. Service Industry Maintenance

Winter, Spring. Summer of even-num-bered years. 4(4-0) 235.

Engineering in food and lodging industry, entphasizing maintenance, rehabilitation, equipment needs and cost considerations.

350. Work Analysis and Design

(350A.) Fall, Winter. Summer of odd-numbered years. 4(4-0).

Work methods and layout. Includes flow analysis, time and motion study, work simplification, data processing and setting of standards.

353.Service Industry Externship

Fall, Winter, Spring, Summer. Zero Approval of school.

Eight hundred hours of actual experience in a hospitality or tourism related organization. Application of theoretical concepts to practical supervisory of managerial situations.

375. Service Industry Merchandising (375A., 375B.) Fall, Spring, Summer.

5(4-2)MTA 316.

Principles of marketing applied to service industries advertising, promotion, public relations and personal selling to achieve profitable public recognition and good will.

400H. Honors Work

Fall, Winter, Spring, Summer. Variable credit. Approval of school.

405. Food and Beverage Management

(447.) Winter, Spring, Summer of odd-numbered years. 4(3-2) 203, 305; 435 or concurrently.

Duties and responsibilities of the manager in restaurant and catering operations. Management methods in goal setting, forecasting, controlling quality and costs; establishing policies to create favorable acceptance and profitable operation.

435. Food Production Systems

(345.) Fall, Spring. Summer of evennumbered years. 6(4-6) 245; HNF 100; FSC 242.

Recognition and achievement of quality in development of systematic relationships between items, time, labor, equipment and costs in quantity food production. Quality procure-ment policies for food, beverages and related items. Field trip required.

Passenger Transportation Systems

Spring 4(4-0) Interdepartmental with and administered by the Marketing and Transportation Administration Department.

Composition and objectives of principal passenger travel markets: Analysis of carrier service, pricing and promotional practices and prob-lems, competitive and cooperative relations. Review of major proposals for change and expansion of service systems.

Food and Beverage Evaluation

(445.) Fall, 4(3-2) 435; approval of school.

History of foods and beverages and related physiological and psychological theories and their application to quantity food production and

461. Tourism Principles and Practices Winter. 4(4-0) EC 200 or 201.

Evolution of tourism as an industry, correlation theory of tourism, tourism organizations, planning and development. Field trip required-

465.Recreation Industry Management Fall. 4(4-0) 305.

Applies management principles in the recreation center, club, tourist entertainment and sales, and similar related husinesses providing revenuegenerating recreation, accommodations, and serv-

472. Design and Layout

Winter, Spring. Summer of odd-numbered years. 4(4-0).

Conceptualization, design, layout and specifica-tion of service industry facilities.

473. Operations Research in the Service Industries

Fall, Spring. 4(3-0) 305; MTA 316; CPS 110: Seniors.

Application of marketing and operational research techniques to service industry manage-ment problems, emphasizing quantitative and analytical decision models designed for specific operations in this field.

†See page A-2 item 3