

404. Survey of Nursing
Fall, Winter, Spring. 4 credits. Seniors.

Development of nursing to present status, current problems and long-term goals. Fields of service open to graduate nurses; nursing organizations, national, state and local, their services and objectives.

406. Senior Nursing
Fall, Winter, Spring. 8(3-20) Senior majors.

A study of basic principles of leadership and their application in the practice of team nursing.

PACKAGING

PKG

College of Agriculture and Natural Resources

210. Principles of Packaging
Fall, Winter, Spring, Summer. 3(3-0)

A general course in packaging principles covering the growth and development of the field, and the technological and motivational problems involved in present day packaging. Consideration will be given to the basic functions of the package and their relation to the needs and wants of our society.

320. Packaging Materials
Fall, Winter, Spring. 5(4-4) CEM 132.

Detailed study of common packaging materials such as wood, paper, paperboards, plastics, metal foils and sheets, glass, and cushioning media. A one-day field trip required.

330. Graphics for the Packaging Industry
Spring. 4(3-3) 320 or approval of school.

Designing graphics for specific types of printing processes and for various packaging materials. Considerations in ink formulation, identification of the various printing processes used, and the advantages and disadvantages of various reproduction methods as used for packaging.

422. Packaging Systems
Fall, Winter, Spring. 5(4-4) 320 or approval of school.

Design, use and evaluation of packages and packaging systems. A one-day field trip is required.

423. Dynamics of Packaging
Winter, Spring. 5(4-3) MTH 215.

A study of the protective function of the packaging systems in relation to their environment and shock and vibration isolation methods. A one-day field trip is required.

424. Packaging Problems
Fall, Winter, Spring, Summer. 1 to 3 credits. 422 or 423. Approval of school.
Development of solutions to specific packaging problems.

425. Packaging Process Analysis
Fall, Winter, Spring. 4(3-3) 422; CPS 110.

The integrated study of the operation structure and control of the packaging and package-making process. A one-day field trip is required.

428. Packaging Development
Fall, Winter, Spring. 4(3-2) 320.

A study of the functions of each area concerned with the development of packages to meet present-day requirements of protection and merchandising.

430. Packaging Machinery
Winter. 4(3-3) 320 or approval of school.

The components for automated packaging lines, and auxiliary materials handling equipment, including consideration of design, selection, specification and operation of machinery for the package-making and package-filling operations.

463. Seminar
Fall. 2(0-4) Must have job experience to enroll.

Detailed report on work performed in fulfillment of practical experience requirements must be submitted.

801. Package Design
Fall. 4(3-3)

Advanced work in the development of the graphic and structural design of packages.

834. Special Investigations in Packaging
Fall, Winter, Spring, Summer. Variable credit.

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

Building Construction*

B C

200. Dynamics of American Housing
Fall, Winter, Spring, Summer. 3(3-0)

Impact of housing on the economic and social welfare of America. Analysis of the residential building industry and its problems in providing adequate housing.

312. Structural Design
Fall. 4(4-0) 200 or approval of department.

Consideration of structural design systems as used in light construction.

314. Methods, Analysis and Controls I
(F P 314.) Fall. 4(2-2) 312.

Design, analysis and controls of work methods and operations in construction.

412. Housing Utilities Design
Winter. 4(4-0) 312.

Design of and planning for mechanical and electrical utilities in housing.

415. Building Materials
Spring. 4(4-0) 312 or approval of department.

Properties of building materials pertinent to their application and performance in service.

416. Building Costs
Winter. 4(2-4) Approval of department.

Methods of cost estimating. Effects of codes and production practices on costs.

418. Special Topics
(F P 418.) Fall, Winter, Spring, Summer. 1 to 3 credits. Approval of department.
Selected topics in housing.

835. Research in Building Construction
(F P 835.) Fall, Winter, Spring, Summer. Variable credit. Approval of department.

899. Research
(F P 899.) Fall, Winter, Spring, Summer. Variable credit. Approval of department.

PARK AND RECREATION RESOURCES*

PRR

College of Agriculture and Natural Resources

200. Resource Ecology and Man
For course description, see Interdisciplinary Courses.

344. Leisure and Recreation Resources
(R D 344.) Spring. 3(3-0)

Leisure in relation to park and recreation resources. History and philosophy, significance in modern society, and impact on urban and natural resource developments.

440. Park and Recreation Administration
(R D 440.) Fall. 4(4-0)

Park and recreation organization, administration and policy at municipal, county, and regional level. Field trip required.

442. State and Federal Recreation Resource Policy
(R D 442.) Winter. 3(3-0)

Origin, development and significance of public policy in recreation resource development in the United States with emphasis at state and federal levels. Field trip required.

444. Park and Recreation Area Design
(R D 444.) Fall. 4(2-4) Approval of department.

Planning and design principles of space, scale, and circulation applied to the use of park and recreation areas and facilities. Field trip required.

446. Park Area Operations
(R D 446.) Spring. 3(3-0) Approval of department.

Problems in operations and maintenance of park and recreation areas and facilities. Personnel practices, budgeting, and maintenance schedules. Selection and adaptability of maintenance equipment. Field trip required.

448. Field Studies in Park Administration
(R D 448.) Fall. 3 credits. Approval of department.

Investigation and analysis of outstanding park and recreation programs. Visits to areas under local, state, and federal jurisdiction. Evaluation of administrative practices, area management, and operation policies. Conducted as a traveling class with agency assistance.

449. Recreation Land Management
(R D 440, 350.) Fall, Spring. 3(2-0)
Not open to majors.

Fundamentals of outdoor recreation resource management. Planning, development, and administration of programs and facilities. Two weekend field trips required.

450. Natural Resource Administration
Fall, Winter. 4(4-0) Interdepartmental with the Fisheries and Wildlife, Forestry, and Resource Development Departments and administered by the Forestry Department.
Concepts and methods of economics and administration and application of techniques to management of wildlands.

*Established January 1, 1969. Formerly a part of the Department of Resource Development.