

369B. Learning Activities for Early Childhood Programs — Laboratory
(369.) Fall, Winter, Spring. 1(0-3)
369A concurrently and approval of department.
Experience in planning and carrying out learning activities with young children in an early childhood program.

400H. Honors Work
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 16 credits. Seniors; approval of department.

401. Minority Families in America
Winter. 3(3-0) S S 213 or approval of department.
Historical, structural, functional components of minority family systems in white America. Centers on a particular minority family system each term. Life styles, pressures, adaptations, viability and continuity of minority family sub-culture.

444. Interpersonal Relationships in the Family
Fall, Spring. Summer of even-numbered years. 3(3-0) 145 or 245 or approval of department.
Relationships between and among family members as they are affected by other systems, and by physical, cultural, social-psychological forces within the family eco-system. Contemporary family life issues.

446. Approaches to the Study of the Family
Fall, Winter. Summer of odd-numbered years. 4(4-0) 145 or 245, 444.

The family is studied from several approaches. Case studies, films, literary materials, research studies and observations of living situations are included.

461. Individual Child Study
Fall, Winter. 3(2-2) Majors: 364; others: 262A, PSY 245 or ED 312.
An in-depth analysis of development and behavior utilizing regular observation of a young child. Applications of theories of child growth and behavior.

464A. Practicum in a Child Development Center
Fall, Winter, Spring. Summer of odd-numbered years. 3 to 6 credits. Majors: 364, 369; others: 262A and 262B, or ED 312, approval of department.
A directed practicum in planning, implementing and evaluating the learning environment, in a class of young children during an entire term.

464B. Problems in Teaching in a Child Development Center
Fall, Winter, Spring. Summer of odd-numbered years. 2(2-0) 464A concurrently.
Analysis of problems in teaching in an early childhood program. Application of child guidance techniques and principles.

465. Human Sexuality and the Family
(365.) Fall, Winter. 3(3-0) Juniors and approval of department.
Personal, interpersonal, societal meanings of human sexuality, utilizing outgoing small peer group interaction. Non-lecture, value clarification approach, integrating reflection on research findings, family, peer and cultural influences.

467. Administration of Child Development Centers
Spring. 3(3-0) 464A and 464B or concurrently.

Analysis of the administrator's role in child development centers. Application of philosophical approaches, communication techniques and management skills to operating early childhood education programs. Licensing and other regulations.

468. Teacher-Parent Interaction
Fall, Winter. 3 credits. Majors: 464A and 464B, or concurrently; others: 262A or ED 312, approval of department.

Analysis of parent-teacher communication and interaction, parent involvement, and parent education related to early childhood education programs operated by schools, churches, or community agencies. Field experience when feasible.

469. Physical and Physiological Growth of Children
(463.) Winter, Spring. 4(3-2) HNF 102; three terms of Natural Science. Inter-departmental with Human Nutrition and Foods.
Physical and physiological growth patterns. Experimental evidence for nutritional requirements. Applications to feeding practices, and physical activity of children.

470. Current Issues in Family and Child Sciences
Spring. 3(3-0) 464A, or Seniors, or approval of department.
Analysis of current events, issues; of legislation which has bearing on homes, families and children and children's programs. Implications for professional decisions and actions.

480. Human Development and Interpersonal Relationships: The Middle and Later Years
Spring. Summer of odd-numbered years. 4(3-1) Introductory sociology and psychology; 145 or 245 or 444.
Social-psychological-biological development and socialization for roles in middle and later years. Generational relationships; societal influences. Case study approach involving interaction with an adult or family in middle or later years.

495. Independent Study
Fall, Winter, Spring, Summer. 4 to 12 credits. May re-enroll for a maximum of 12 credits. Approval of department.
Study of a selected topic under the guidance of a faculty adviser in the area of specialty.

498. Field Study
Fall, Winter, Spring, Summer. 4 to 12 credits. May re-enroll for a maximum of 12 credits. Approval of department.
Study in off-campus situations in a variety of ways using involvement in volunteer, governmental or business-sponsored community service agencies to further insights into interaction among the individual, the family and the community.

801A. Seminar in Family Life
(800B.) Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 12 credits. Approval of department.

801B. Seminar in Child Development
(800B.) Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 12 credits. Approval of department.

810. Workshop
Summer. Variable credit. Approval of department.
Content varies depending on nature of workshop.

813B. Special Studies in Family Life and Child Development
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

820. Human Development in the Family: Physiological Development
Fall. 4(4-0) Six credits in child development or approval of department.
Selected aspects of family members' physiological potential, development, status explored. Family's contributions to members' physiological potential for growth and development and to realization of human potential are seen as fundamental.

821. Human Development in the Family: Personality
Winter. 4(4-0) Six credits in child development or approval of department.
Influence of child-rearing practices and parent-child relationships on developing human personality. Application of research findings and theoretical approaches to psychological development in the family and family-related situations.

822. Human Development in the Family: Socialization
Spring. 4(4-0) Basic course in sociology; 6 credits in child development or family life or approval of department.
Influence of family structure and interaction upon socialization from infancy to adulthood. Relationship of family to processes in larger social environment, and influence of these on human social development.

830. Individual Readings
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

862. Advanced Child Study
Spring. Summer of odd-numbered years. 3(3-0) 262A and B or ED 312 or approval of department.
Current trends in field of child development based on research and on significant new books. Careful observations of children in a variety of informal situations will be made within the limits of available resources.

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

999. Research
Fall, Winter, Spring, Summer. Variable credit.
Research in home management and economics of the family.

FAMILY ECOLOGY* F E

College of Human Ecology†

110. Man in His Near Environment
(H E 110.) Fall, Winter, Spring. 3(3-0) New students in Human Ecology.
Ecological approach to the study of man and his near environment stressing the quality of life as it relates to individual, family and environmental forces.

238. Personal Finance
Fall, Winter, Spring. 3(3-0)
Strategies, techniques and resource materials useful in improved management of personal finances. Special emphasis on stretching meager resources.

*Established July 1, 1970.
†Name changed July 1, 1970. Formerly College of Home Economics.

- 331. Management and Decision Making in the Family**
(FCS 331.) Fall, Winter, Spring. Summer of even-numbered years. 4(4-0) Juniors and EC 201, or SOC 241, or three terms of social science.
Presentation of the integrated nature of home management; concerns, values, and goals as reflected in decision-making about family resources.
- 332. Theory and Application of Home Management**
(FCS 332.) Fall, Winter, Spring. 4(1-4) with residence; 4(2-4) without residence. FCS 245; F E 331 or concurrently; or approval of department.
Principles of effective home management and their application in a living situation. Residence in a home management house provided.
- 400H. Honors Work**
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 16 credits. Seniors; approval of department.
- 401. Contemporary Issues in Human Ecology**
(H. E. 401.) Fall, Winter, Spring. 3(3-0) Seniors.
Trends in the field of family ecology and the relevance to current social needs.
- 436. Consumer Economic Problems**
(FCS 439., 439.) Fall, Winter, Spring. 3(3-0) EC 200 or 201.
Nature of current consumer problems. Sources of information and methods of evaluating information in the search for solutions to problems and for improved consumer protection.
- 437. Management of Work Capacity in the Home**
(FCS 437.) Winter, Summer of even-numbered years. 3(3-0) 331 or approval of department.
Analysis of the resource of human work capacity in the home—physiological and psychological factors; principles and use of work simplification.
- 438. Family Financial Management**
(FCS 438.) Fall, Winter, Spring. Summer of even-numbered years. 4(4-0) 331; EC 201 or PAM 201.
Major financial alternatives available to families during the founding, active parenthood, and retirement stages. Implications for the community of the family's financial decisions.
- 450. Selected Topics in Family Ecology**
(H E 450.) Winter. 3 credits. Seniors. Current issues of concern to professional family ecologists.
- 495. Independent Study**
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 12 credits. Approval of department.
- 498. Field Study**
Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 12 credits. Approval of department.
- 800A. Seminar in Family Ecology**
(FCS 800A.) Fall, Winter, Spring. Summer of even-numbered years. 3(3-0) May re-enroll for a maximum of 12 credits. Approval of department.
- 813A. Special Studies in Family Ecology**
(FCS 813A.) Fall, Winter, Spring. Summer. Variable credit. Approval of department.
- 819. Research Methods**
(FCS 819.) Fall, Spring. 3(3-0) Approval of department. Interdepartmental with and jointly administered with Human Environment and Design Department.
- 820. Critique of Research**
Winter, Summer. 3(2-0) 819.
A critical analysis of research on the family and its near environment. Emphasis is placed on critique of methodology with some consideration of research needs.
- 822. New Developments**
(H E 822, ED 822E.) Summer of odd-numbered years. 3(3-0) ED 436.
Trends in the field of family ecology and the relevance to current social needs.
- 823. Curriculum**
(H E 823, ED 822K.) Fall, Summer. 3(3-0) Approval of department.
Clarification and use of a rationale in curriculum development. Special problems in application.
- 824. Programs in Home and Family Life Education**
(H E 824, ED 822M.) Spring of odd-numbered years. Summer. 3(3-0) Approval of department.
Develops depth in home and family living courses offered in secondary school programs.
- 825. Methods of Teaching Adults**
(H E 825, ED 828A.) Spring of even-numbered years. 3(3-0) Approval of department.
Developmental needs of adults and changes in society affecting families as a basis for development of adult programs in homemaking education. Experiences will be provided with programs in progress.
- 826. Supervision**
(H E 826, ED 837B.) Winter of odd-numbered years; Summer of even-numbered years. 3(3-0) Approval of department.
Objectives, techniques, and organization of supervising teaching in teacher education programs.
- 827. Evaluation**
(H E 827, ED 868.) Winter, Summer. 3(3-0) Approval of department.
Evaluation procedures and practices for various levels of educational programs in the area of human ecology.
- 830. Individual Readings**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.
- 831. Values and Family Behavior**
Winter of even-numbered years. Summer of odd-numbered years. 4(4-0) Approval of department.
Role and function of values as fundamental to understanding behavior in the family. Cognition and actualization of values. Resolution of value conflicts. Conceptual and methodological approaches to study of values.
- 832. Theories of Management and Decision-Making in the Family**
(FCS 832.) Winter of odd-numbered years. 4(2-1) 331.
Comparative study of conceptual frameworks of family decision-making and of interrelated decisions, including both individual and social choices.
- 835. Family As an Ecosystem**
Fall. 3(3-0) Approval of department.
Family viewed as an ecosystem. Emphasis placed on energy and communication cycles within the family. Integration of management, family dynamics and developmental concepts.
- 837. Allocation of Family Resources**
(FCS 837.) Spring of even-numbered years. Summer of odd-numbered years. 4(4-0) 437, 438.
Contributors to and recipients of family resources both human and non-human. Patterned use of resources and the effect of definite factors such as standard of living on those patterns.
- 838. Analysis of Family Income**
(FCS 838.) Spring of odd-numbered years. Summer of even-numbered years. 3(3-0) 438.
Forms of family income and economic problems relative to the protection of family economic security through insurance and investments, property rights and descent of property, and estate planning.
- 840. Workshops in Family Ecology**
(H E 830.) Summer. 2 to 10 credits. May re-enroll for a maximum of 10 credits. Approval of department.
Laboratory approach which provides opportunities for experienced educational personnel to concentrate their study on common professional problems.
- 841. Seminars in Home Economics Education**
(H E 831.) Spring, Summer. 2 or 3 credits. May re-enroll for a maximum of 9 credits. Approval of department.
Seminars in selected topics.
- 842. Laboratory and Field Experience**
(H E 832.) Fall, Spring. 4 credits. Approval of department.
Supervised graduate practicums, observation, internships, and externships.
- 843. Independent Study in Family Ecology**
(H E 833.) Fall, Winter, Spring, Summer. 1 to 5 credits. May re-enroll for a maximum of 9 credits. Approval of department.
Study on an individual or group basis.
- 899. Research**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.
- 901. Internship**
(H E 901.) Fall, Winter, Spring, Summer. 3 to 5 credits. May re-enroll for a maximum of 9 credits. Approval of department.
Supervised advanced graduate practicums, observation, internships, and externships in the various areas of emphasis.
- 902. Independent Study in Family Ecology**
(H E 902.) Fall, Winter, Spring, Summer. 1 to 5 credits. May re-enroll for a maximum of 9 credits. Approval of department.
Study on an individual basis.

903. Seminars in Family Ecology
(H E 903.) Spring, Summer. 2 or 3 credits. May re-enroll for a maximum of 9 credits. Approval of department. Seminars in selected topics.

932. History and Philosophy of Home Management
(FCS 932.) Fall. Summer of even-numbered years. 3(2-0)

History and development of home management as a field of study. Values and decision-making as analyzed by various disciplines and as used in home management.

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

FAMILY MEDICINE* F M

College of Osteopathic Medicine

530. Physical Examination Skills
Fall. 2(1-2) Admission to medical school and approval of department.

Introductory course in physical examination skills used in the family physician's office. The lecture relates principles of physical examination to the laboratory where skills are taught.

545. Principles of Family Medicine I
Spring. 3(3-0) Admission to medical school and approval of department. Clinical medicine which is specific in content for the practice of family medicine.

555. Principles of Family Medicine II
Summer. 4(4-0) Admission to medical school and approval of department. Continuation of 545.

620. Special Problems
Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 24 credits. Approval of department. Individual or group projects on special problems related to family medicine.

630. The Osteopathic Examination I
Winter. 1(0-2) Admission to medical school and approval of department. Instruction in the osteopathic examination.

632. Principles of Family Practice I
Winter. 1(0-4) Admission to medical school and approval of department. Placement of the student in a family physician's office or clinic.

640. The Osteopathic Examination II
Spring. 1(0-2) Admission to medical school and approval of department. Continuation of 630.

642. Principles of Family Practice II
Spring. 1(0-4) Admission to medical school and approval of department. Continuation of 632.

650. The Osteopathic Examination III
Summer. 1(0-2) Admission to medical school and approval of department. Continuation of 640.

652. Principles of Family Practice III
Summer. 1(0-4) Admission to medical school and approval of department. Continuation of 642.

*Established July 1, 1973. Formerly Department of Community and Family Medicine.

660. The Osteopathic Examination IV
Fall, Winter. 1(0-2) Admission to medical school and approval of department. Continuation of 650.

662. Principles of Family Practice IV
Fall. 1(0-4) Admission to medical school and approval of department. Continuation of 652.

665. Principles of Family Medicine III
Fall. 4(4-0) Admission to medical school and approval of department. Continuation of 555.

670. The Osteopathic Examination V
Spring, Summer. 1(0-2) Admission to medical school and approval of department. Continuation of 660.

672. Principles of Family Practice V
Winter. 1(0-4) Admission to medical school and approval of department. Continuation of 662.

675. Principles of Family Medicine IV
Winter. 4(4-0) Admission to medical school and approval of department. Continuation of 665.

680. The Osteopathic Examination VI
Spring. 1(0-2) Admission to medical school and approval of department. Continuation of 670.

682. Principles of Family Practice VI
Spring. 1(0-4) Admission to medical school and approval of department. Continuation of 672.

685. Principles of Family Medicine V
Spring. 4(4-0) Admission to medical school and approval of department. Continuation of 675.

690. The Osteopathic Examination VII
Summer. 1(0-2) Admission to medical school and approval of department. Continuation of 680.

692. Principles of Family Practice VII
Summer. 1(0-4) Admission to medical school and approval of department. Continuation of 682.

695. Principles of Family Medicine VI
Summer. 4(4-0) Admission to medical school and approval of department. Continuation of 685.

FISHERIES AND WILDLIFE F W

College of Agriculture and Natural Resources

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

202. Soils and Man's Environment
Winter. 3(3-0) Interdepartmental with Resource Development Department, Natural Resources, and Soil Science and administered by Soil Science.

Use of soil-water resources in a technological society as it relates to environmental quality.

Nature of pollution problems and their possible solutions. Food production and world population.

301. Fish and Wildlife of North America
Winter. 5(3-4) B S 212 or approval of department.

Comparative study of fish and wildlife groups in North America, their significant life history stages, morphology, migrations, habitats and populations. Common species are identified in the laboratory.

305. Principles of Fisheries and Wildlife Management
Winter. 3(3-0) IDC 200 or approval of department. Not open to majors in fisheries-limnology or wildlife-ecology options.

Ecological concepts in management. Effects of regulations, refuges, stocking, species introduction, habitat manipulation, artificial feeding, genetic improvement, land use and control of predators, diseases and competitors on the production of fish and game.

340. Wildlife Biometry
Winter. 4(3-2) MTH 111, six credits in Fisheries and Wildlife.

Survey of statistical formulas, methods and applications of statistics to problems in fisheries and wildlife.

374. Biological Oceanography
(474.) Winter. 3(3-0) B S 212 or approval of department.

Biology of marine animals, with emphasis on physical, chemical and biological factors affecting their abundance and distribution.

402. Environmental Conservation Education
Fall, Winter, Spring, Summer. 4(3-2) Education majors or approval of department.

Nature, distribution and interrelationships of natural resources dictating the quality of man's environment. Principles of resource use, study of natural objects and techniques of teaching in and about the environment.

404. Fisheries and Wildlife Problems
Fall, Winter, Spring, Summer. 1 to 5 credits. May re-enroll for a maximum of 12 credits. B S 212; 6 credits of fisheries and wildlife; approval of department.

To give undergraduate majors an opportunity to study special topics in fisheries and wildlife.

424. Wildlife Population Analyses
Spring. 4(3-2) IDC 200 or approval of department.

Population mensuration; reproductive and survival rates; sex and age determination; handling and marking methods.

425. Wildlife Habitat Analyses
Spring. 4(2-4) BOT 450 or ZOL 389 or FOR 220.

Evaluation of environmental factors affecting wildlife species; food and cover measurements. Determination of limiting factors.

426. Ecology of Migratory Birds
Fall. 4(2-4) ZOL 461 or approval of department.

Ecological, behavioral, and physiological characteristics affecting population parameters of migratory birds and applications of these relationships to the management of migratory wildlife resources.