

## Environmental Engineering—ENE

### ENVIRONMENTAL ENGINEERING ENE

#### Department of Civil and Environmental Engineering College of Engineering

**427 Environmental Toxicology and Society**  
Spring of odd years. 3(3-0) Interdepartmental with Animal Science; Sociology. Administered by Department of Animal Science. RB: (ISB 200 or ISB 202 or ISB 204 or ISB 206H or BMB 200 or BS 111 or BS 110)  
Impact of environmental chemicals on health and modern society. Cellular and organ functions and their interface with the environment. Limitations of scientific investigation and environmental regulations.

### EPIDEMIOLOGY EPI

#### Department of Epidemiology College of Human Medicine

**390 Disease in Society: Introduction to Epidemiology and Public Health**  
Spring. 4(4-0) Interdepartmental with Social Science.  
Human epidemiology and population health issues facing contemporary society. Developed and less-developed settings. Health-related information in the mass media and scholarly publications.

### FAMILY AND CHILD ECOLOGY FCE

#### Department of Family and Child Ecology College of Human Ecology

**145 The Individual, Marriage and the Family**  
Fall, Spring. 3(3-0) R: Open only to freshmen or sophomores.  
Development of the young adult in the human ecological context. Issues of sexuality, gender, parenting, work and family interface, communication, and resource use. Diversity in relationships and families.

**211 Child Growth and Development: Conception Through Early Childhood**  
Fall, Spring. 3(3-0) R: Not open to freshmen.  
Physical, cognitive, social, emotional, and ecological aspects of human growth and development from conception through early childhood.

**212 Children, Youth and Family**  
Fall, Spring. 3(3-0)  
An ecosystems perspective on development during childhood and adolescence emphasizing family and community contexts.

**225 Ecology of Lifespan Human Development in the Family**  
Fall, Spring. 3(3-0) R: Not open to seniors.  
Human development across the lifespan with an ecological perspective. Relationships between human resource professionals and family systems.

**238 Personal Finance**  
Fall, Spring, Summer. 3(3-0)  
Strategies, techniques and resources useful in the management of personal finance.

**270 Introduction to Family Community Services**  
Fall, Spring. 4(3-2)  
Family community services from an ecological perspective. Professional orientation and factors influencing the field. Participation in community agency required.

**280 Community as Context for Individual and Family Development**  
Fall. 3(3-0)  
Families' and individuals' fit within a community over their life span from an ecological perspective. Analysis of change. Influence of context on development and its implications for family community services.

**320 Interaction Processes with Children in Groups**  
Fall, Spring. 3(3-0) P:M: (FCE 211) R: Open only to students in the Department of Family and Child Ecology or Graduate Lifelong Education students pursuing additional endorsement in Early Childhood Education. C: FCE 320L concurrently.  
Principles of verbal and non-verbal interaction in relation to children's behavior in groups. Focus on young children in early childhood programs.

**320L Interaction with Children-Laboratory**  
Fall, Spring. 1(0-4) P:M: (FCE 211) R: Open only to students in the Department of Family and Child Ecology or Graduate Lifelong Education students pursuing additional endorsement in Early Childhood Education. C: FCE 320 concurrently.  
Practice applying principles of interaction to individuals and small groups in early childhood programs.

**321 Curriculum for Early Childhood Programs**  
Fall, Spring. 3(3-0) P:M: (FCE 211 and FCE 320 and FCE 320L) and (MTH 201 or STT 200 or STT 201) and completion of Tier I writing requirement. R: Open only to students in the Department of Family and Child Ecology or Graduate Lifelong Education students pursuing additional endorsements in Early Childhood Education. C: FCE 321L concurrently.  
Child development principles and accreditation standards for designing curricula for early childhood programs. Planning and evaluating learning activities and programs.

**321L Curriculum for Early Childhood Programs: Laboratory**  
Fall, Spring. 1(0-4) P:M: (FCE 211 and FCE 320 and FCE 320L) and (MTH 201 or STT 200 or STT 201) R: Open only to students in the Department of Family and Child Ecology or Graduate Lifelong Education students pursuing additional endorsement in Early Childhood Education. C: FCE 321 concurrently.  
Supervised practice in providing learning activities for individual children and small groups. Planning, implementing, and evaluating activities. Field trips may be required.

**345 Principles of Family Studies**  
Fall, Spring. 3(3-0) P:M: (FCE 145) and (FCE 211 or FCE 212 or FCE 225) and (STT 200 or STT 201) R: Not open to freshmen.  
Historical, social, cultural, and economic perspectives on contemporary families. Approaches to studying families. Role of communication, resources, and decision-making in family systems.

**346 Helping Skills in Family Community Services**  
Fall. 3(3-0) P:M: (FCE 270) and (FCE 280 or PSY 270 or SOC 361 or concurrently) and (STT 200 or STT 201) R: Open only to juniors or seniors.  
Foundational skill development necessary for the delivery of services to diverse families. Communication, interviews, problem-solving, and assessment. Application of skills in a field experience.

**347 Programming in Family Community Services**  
Fall, Spring. 4(3-3) P:M: (FCE 270) and (FCE 280 or PSY 270 or SOC 361 or concurrently) and (STT 200 or STT 201) and completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors. Not open to students with credit in FCE 370.  
Analysis of youth and adult service programs. Program planning processes involved in delivering services to clients and learners. Application of program planning skills. Field experience.

**405 Work and Family**  
Spring. 3(3-0) P:M: Completion of Tier I writing requirement. R: Open only to juniors or seniors or graduate students.  
Historical perspectives on work and family. Effects of work on family members across life cycle, and employer and public policy response.

**411 Developmental Study of a Child**  
Fall, Spring. 2(1-3) P:M: (FCE 320 and FCE 320L) and completion of Tier I writing requirement. R: Open only to juniors or seniors or graduate students.  
Ecological analysis of developmental behavior. Application of research findings to observations of a child.

**413 Adult Development and the Family: Middle and Later Years**  
Fall of even years. 4(3-3) RB: One course in psychology or sociology. R: Open only to juniors or seniors or graduate students.  
Social, psychological and biological development within the family. Field study required.

**414 Parenting**  
Fall of odd years. 3(3-0) R: Open only to juniors or seniors or graduate students.  
Childrearing in modern society. Adult parenting roles in various family structures. Support roles of families and communities.

**424 Student Teaching in an Early Childhood Program**  
Fall, Spring, Summer. 4 to 6 credits. P:M: (FCE 211 and FCE 320 and FCE 320L and FCE 321 and FCE 321L) and completion of Tier I writing requirement. R: Open only to seniors in the Department of Family and Child Ecology. Approval of department.  
A supervised teaching practicum. Planning, implementing, and evaluating an ecological, educational program for children and their families.