

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.

FINANCE

FI

**Department of Finance
The Eli Broad College of
Business and The Eli Broad
Graduate School of Management**

201 Personal Investing
Fall, Spring, 3(3-0) RB: Completion of Tier I writing requirement. Not open to students with credit in FI 312.

Introduction to the world of personal investing. Formulation of intelligent and practical investment plans. Implementation using stocks, bonds, and other investments. Performance evaluation with respect to stated goals.

293 Cooperative Education for Business Students

Fall, Spring, 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Marketing and Supply Chain Management; Accounting; Economics; Management; Hospitality Business. Administered by Department of Marketing and Supply Chain Management. R: By permission of the Department only.

Integration of pre-professional educational employment experiences in industry and government with knowledge and processes taught in the student's academic program. Educational employment assignment approved by the Department of Marketing and Supply Chain Management.

311 Financial Management

Fall, Spring, Summer, 3(3-0) P:M: (ACC 202 or ACC 230 or ACC 251H or HB 302) and (STT 315) R: Open only to juniors or seniors in The Eli Broad College of Business. Not open to students in The School of Hospitality Business. Not open to students with credit in FI 320.

Overview of financial management for business majors. Analysis of financial statements, markets, and assets. Risk and valuation, corporate budgeting and investment decisions. International and ethical implications. Current events applications.

312 Introduction to Investments

Fall, Spring, Summer, 3(3-0) P:M: (FI 311) R: Open only to juniors or seniors in The Eli Broad College of Business. Not open to students in the School of Hospitality Business.

Theoretical and empirical analyses of securities. Risk and return formation. Security analysis and concepts of market efficiency. Common stocks, bonds, options, futures, and mutual funds.

320 Introduction to Finance

Fall, Spring, 3(3-0) R: Open only to students in programs for which FI 320 is a catalog-listed requirement. Not open to students with credit in FI 201 or FI 311.

Overview of finance for the non-business major. Stocks, bonds, mutual funds, financial statement analysis, capital budgeting, financial planning.

442 Ethnic Minority Families in America
Fall, Spring, 3(3-0) R: Open only to juniors or seniors or graduate students.

Historical, structural, and functional components of selected ethnic minority family systems in America. Lifestyles, pressures, adaptations, viability, and continuity.

444 Interpersonal Relationships in the Family
Fall, Spring, 3(3-0) R: Open only to juniors or seniors or graduate students.

Personal awareness and interpersonal relationships within the family system. Small group discussions.

445 Human Sexuality

Fall, Spring, 3(3-0) R: Open only to juniors or seniors or graduate students.

Family and psychosocial factors affecting the development of a person's sexuality across the life cycle. Reciprocal impact on society and the legal system.

447 Management of Family Community Service Programs

Spring, 3(3-0) P:M: (FCE 321 or FCE 347 or concurrently) R: Open only to juniors or seniors or graduate students in the Department of Family and Child Ecology.

Analysis of family and community service programs and organizations. Effective management and leadership processes. Programs and organizations from an ecological perspective. Service-learning experience.

448 Child and Family Policy

Fall of even years, 3(3-0) P:M: (FCE 211 or FCE 212 or PSY 244)

Issues faced by American families and children; relationships among social science research, theory and public policy.

452 Consumer Issues

Spring, 3(3-0) P:M: (FCE 238) and completion of Tier I writing requirement. R: Open only to juniors or seniors or graduate students.

Issues in contemporary consumer ecosystems.

454 Family Financial Management

Spring, 3(3-0) P:M: (FCE 238) and completion of Tier I writing requirement. R: Open only to juniors or seniors or graduate students.

Financial management strategies of families during the life cycle. Income support programs.

458 Family Financial Advising

Fall of odd years, 2(2-0) P:M: (FCE 238) R: Open only to juniors or seniors or graduate students.

Advising strategies for working with families with financial concerns.

470 Current Issues in Family and Child Ecology

Spring, 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to juniors or seniors or graduate students.

Legislation, current events, and issues affecting families and children. Implications for professional decisions and actions.

472 Evaluation of Human Service Programs
Spring of even years, 3(2-2) P:M: (FCE 347 or FCE 321) R: Open only to juniors or seniors or graduate students.

Evaluation design, methodology and implementation with applications to family, child, consumer, and human service-related programs. Interactions of individuals, families and human-service programs from perspectives of ecology of human development, family ecosystems, and community ecology. Field observations required.

473 Administration of Early Childhood Programs

Fall, 3(3-0) P:M: (FCE 320L) or (FCE 347 or concurrently) R: Open only to juniors or seniors or graduate students in the Department of Family and Child Ecology. Not open to students with credit in FCE 447.

Administrator's role in early childhood programs. Ecological focus on administrative relationships, regulations, fiscal and management skills, and developmentally appropriate practices. Public, private, for-profit, not-for-profit, center, and home-based programs.

490 Independent Study

Fall, Spring, Summer, 1 to 5 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department; application required.

Individual study of selected topics under faculty guidance.

490H Honors Independent Study

Fall, Spring, Summer, 1 to 5 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Open only to Honors students. Approval of department; application required.

Honors individual study of selected topics with faculty guidance.

491 Internship Preparation

Fall, Spring, Summer, 1(1-0) P:M: (FCE 270) and (FCE 280 or PSY 270 or SOC 361) and (FCE 320 or FCE 346 or concurrently) and (FCE 321 or FCE 347 or concurrently)

Preparation for professional internship.

492 Internship Seminar

Fall, Spring, Summer, 1(1-0) P:M: (FCE 491) R: Open only seniors or graduate students in the Department of Family and Child Ecology. Approval of department. C: FCE 493 concurrently.

Written reflection assignments. Discussion of internship issues.

493 Internship

Fall, Spring, Summer, 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (FCE 491) and completion of Tier I writing requirement. R: Open only seniors or graduate students in the Department of Family and Child Ecology. Approval of department. C: FCE 492 concurrently.

Professional experience in a community organization.