

Descriptions — Entomology of Courses

870. Plant Nematology
Spring of odd-numbered years. 3(2-3) Interdepartmental with Botany and Plant Pathology.
P: BOT 405.
 Biology, host parasite relationships and management of selected nematode diseases of economic plants.

890. Independent Study
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
R: Open only to graduate students.
 Individual study on a field or laboratory research topic or review of published literature on a topic of interest.

899. Master's Thesis Research
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 24 credits in all enrollments for this course.
R: Open only to masters students in Entomology.

940. Analytical Techniques for Bioactive Compounds: Separation
Spring of odd-numbered years. 4(2-6)
 Extraction and chromatographic separations of compounds from environmental matrices.

941. Analytical Techniques for Bioactive Compounds: Confirmation
Spring of even-numbered years. 4(2-6)
 Instrumental confirmation of compounds from environmental matrices.

999. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course.
R: Open only to Ph.D. students in Entomology.

ENVIRONMENTAL ENGINEERING

ENE

Department of Civil and Environmental Engineering College of Engineering

800. Environmental Engineering Seminar
Fall, Spring. 1(1-0)
R: Open only to Environmental Engineering majors.
 Current research in environmental engineering.

801. Dynamics of Environmental Systems
Spring. 3(3-0)
 Principles of mass balance, reaction kinetics, mass transfer, reactor theory in environmental engineering.

802. Physicochemical Processes in Environmental Engineering
Fall. 3(3-0)
P: ENE 801.
 Physical and chemical principles of air and water pollution control and environmental contaminants in water, air and soils.

803. Physicochemical Process Laboratory
Spring. 1(0-3)
P: ENE 801. C: ENE 802.
 Experiments involving physicochemical processes such as air stripping coagulation and flocculation, activated carbon and chemical oxidation.

804. Biological Processes in Environmental Engineering
Fall. 3(3-0)
P: ENE 801 or concurrently.
 Engineering of microbial processes used in wastewater treatment, in-situ bioreclamation, and solid waste stabilization.

805. Biological Processes Laboratory
Spring. 1(0-4)
P: ENE 804.
 Principles of biological processes applied to wastewater treatment.

807. Environmental Analytical Chemistry
Fall. 3(3-0)
R: Open only to Environmental Engineering majors.
 Techniques for measurement and analysis in environmental engineering. Sample preparation. Quality assurance.

808. Environmental Analytical Chemistry Laboratory
Spring. 1(0-3)
P: ENE 807. R: Open only to Environmental Engineering majors.
 Laboratory work in environmental analytical chemistry.

880. Independent Study in Environmental Engineering
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to Environmental Engineering majors.
 Solution of environmental engineering problems not related to student's thesis.

890. Selected Topics in Environmental Engineering
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
R: Open only to Environmental Engineering majors.
 Selected topics in new or developing areas of environmental engineering.

899. Master's Thesis Research
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

999. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 72 credits in all enrollments for this course.

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 and sophomores.
 Development of the young adult in the human ecological context. Issues of sexuality, gener, 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.

211L. Child Growth and Development Laboratory
Fall, Spring. 1(0-3)
C: FCE 211. R: Not open to freshmen.
 Observation and recording the behavior and development of young children.

212. Children, Youth and Family
Fall, Spring. 3(3-0)
P: FCE 145, SOC 100 or FCE 211. R: Not open to freshmen.
 An ecosystems perspective on development during childhood and adolescence emphasizing family and community contexts.

225. Ecology of Family and Human Development
Fall, Spring. 3(3-0)
R: Not open to seniors except seniors in the College of Human Ecology.
 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. Human Services in the Community
Fall, Spring. 4(3-2)
R: Not open to freshmen. Open only to students in the Department of Family and Child Ecology.
 Human services from an ecological perspective. Human service needs, resources and methods of service delivery. Participation in community agency required.

320. Interaction Processes with Children in Groups
Fall, Spring. 3(3-0)
P: FCE 211. R: Open only to juniors and seniors in the Department of Family and Child Ecology.
 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(0-3)
P: FCE 211; FCE 320 or concurrently. R: Open only to juniors and seniors in the Department of Family and Child Ecology.
 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: FCE 320, FCE 320L. R: Open only to juniors and seniors in the Department of Family and Child Ecology. Completion of Tier I writing requirement.
 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(0-3)
P: FCE 320, FCE 320L, FCE 321 or concurrently. R: Open only to juniors and seniors in the Department of Family and Child Ecology.
 Supervised practice in providing learning activities for individual children and small groups. Planning, implementing and evaluating activities.

350. Management and Decision Making in the Family
Fall. 3(3-0)
R: Not open to freshmen and sophomores. Completion of Tier I writing requirement.
 Management for the realization of values and goals through decision making about resources in the family.