

ENVIRONMENTAL ENGINEERING

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ENE

801*. *Dynamics of Environmental Systems*
Spring, 3(3-0)
P: CE 481
Principles of mass balance; reaction kinetics; mass transfer; reactor theory in environmental engineering.
QP: CE 481 QA: ENE 801

802*. *Physico-chemical Processes in Environmental Engineering*
Fall, 3(3-0)
P: ENE 801
Analysis of physical and chemical principles which form the basis of air and water pollution control and are important in the fate of environmental contaminants in water, air and soils.
QP: CE 483 QA: ENE 802

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

804*. *Biological Processes in Environmental Engineering*
Spring, 3(3-0)
P: CE 487, ENE 801 or concurrently C:
ENE 801 if not already taken Basic principles for the engineering of microbial processes used in wastewater treatment, in-situ bioreclamation, and solid waste stabilization.
QP: ENE 801 QA: ENE 804

805*. *Biological Processes Laboratory*
Fall, 1(0-4)
P: ENE 804
Laboratory experience in which principles taught in ENE 804 are applied for the treatment of wastewater.
QP: ENE 804 QA: ENE 805

807*. *Environmental Analytical Chemistry*
Fall, 3(3-0)
P: CE 481, approval of the department
Modern techniques for measurement and analysis in environmental engineering; sample preparation; quality assurance.
QP: CE 481

808*. *Environmental Analytical Chemistry Laboratory*
Spring, 1(0-3)
P: CE 807
Laboratory work in environmental analytical chemistry.
QP: CE 481

880*. *Special Problems in Environmental Engineering*
Fall, Spring, Summer, 1 to 6 credits.
May reenroll for a maximum of 6 credits.
P: Approval of department.
Solution of environmental engineering problems, of limited scope, which do not pertain to the student's thesis.

890*. *Selected Topics in Environmental Engineering*
Fall, Spring, Summer, 3(3-0) May reenroll for a maximum of 9 credits.
P: Approval of department
Selected topics in new or developing areas of environmental engineering.
QA: CE 890

899*. *Masters Thesis Research*
Fall, Spring, Summer, 1 to 8 credits.
May reenroll for a maximum of 0 credits.
P: Approval of department
Master's thesis research

999*. *Doctoral Dissertation Research*
Fall, Spring, Summer, 1 to 12 credits.
May reenroll for a maximum of 0 credits.
P: Approval of department
[Doctoral dissertation research
QA: ENE 999

FAMILY AND CHILD ECOLOGY

FCE

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.
QA: FCE 145

211. *Child Growth and Development: Conception Through Early Childhood*
Fall, Spring, 4(3-2)
P: PSY 101. R: Not open to freshmen.
Physical, cognitive, social, emotional and ecological aspects of human growth and development from conception through early childhood.
QP: PSY 160 ORPSY 170 QA: FCE 262A

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.
QP: FCE 145 ORFCE262A QA: FCE 263

225. *Ecology of Family and Human Development*
Fall, Spring, 3(3-0)
R: NONE
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.
QA: FCE 238

270. *Human Services in the Community*
Fall, Spring, 3(2-3)
R: Not open to freshmen. Open only to Family Community Services, Family and Consumer Resources, and Home Economics Education students.
Human services from an ecological perspective. Human service needs, resources and methods of service delivery. Participation in community agency required.
QA: FCE 221

320. *Interaction Processes with Children in Groups*
Fall, Spring, 3(3-0)
P: FCE 211. R: Not open to freshmen and sophomores.
Principles of verbal and non-verbal interaction in relation to children's behavior in groups. Focus on young children in early childhood programs.
QP: FCE 262AFCE 262BORFCE 221 QA: FCE 364A

320L. *Interaction with Children-Laboratory*
Fall, Spring, 1(0-3)
P: FCE 211, FCE 320 or concurrently. R:
Not open to freshmen and sophomores.
Practice applying principles of interaction to individuals and small groups in early childhood programs.
QP: FCE 262AANDFCE 262BFCE 364A QA: FCE 364B

321. *Curriculum for Early Childhood Programs*
Fall, Spring, 3(3-0)
P: FCE 320, FCE 320L. R: Not open to freshmen and sophomores.
Child development principles and accreditation standards for designing curricula for pre-primary age children. Plan and evaluation of unit activities and programs.
QP: FCE 364AFCE 364B QA: FCE 369A

321L. *Curriculum for Early Childhood Programs: Laboratory*
Fall, Spring, 1(0-3)
P: FCE 320, FCE 320L, FCE 321 or concurrently. R: Not open to freshmen and sophomores.
Supervised practice in providing learning activities for individual children and small groups. Planning, implementing and evaluating activities.
QP: FCE 364AFCE 364B QA: FCE 369B

350. *Management and Decision Making in the Family*
Fall of even-numbered years, 3(3-0)
R: Not open to freshmen and sophomores.
Management for the realization of values and goals through decision making about resources in the family.
QA: FCE 331 FCE 332

370. *Educational Systems in Human Ecology*
Fall, Spring, 3(3-0)
P: FCE 270. R: Not open to freshmen.
The human ecologist as educator in formal, nonformal, and informal educational systems. Instructional methods appropriate for those environments.
QP: FCE 221 QA: FCE 340

405. *Work and Family*
Spring, 3(3-0)
R: Not open to freshmen and sophomores.
Historical perspectives on work and family. Effects of work on family members across life cycle, and employer and public policy response.
QA: FCE 405

411. *Developmental Study of a Child*
Fall, Spring, 2(1-3)
P: FCE 211 or PSY 244. R: Not open to freshmen and sophomores.
Ecological analysis of developmental behavior. Application of research findings to observations of a child.
QP: FCE 262 PSY 244 QA: FCE 461

413. *Adult Development & the Family: Middle & Later Years*
Spring, Summer, 4(3-3)
P: One course in psychology or sociology.
R: Not open to freshmen and sophomores.
Social, psychological and biological development within the family. Field study approach.
QP: PSY/SOC QA: FCE 480 FCE 479

414. *Parenting*
Fall of odd-numbered years, 3(3-0)
R: Not open to freshmen and sophomores.
Childrearing in modern society. Adult parenting roles in various family structures. Support roles of families and communities.

FAMILY AND CHILD ECOLOGY

- 424. Student Teaching in an Early Childhood Program**
 Fall, Spring, Summer. 5 to 9 credits in increments of 2 credits.
 P: FCE 321, FCE 321L, approval of department. R: Open only to seniors and graduate students in *Child Development, Child Development and Teaching, Community Services, Community Services-Urban Studies, and Family Community Services*.
 A supervised teaching practicum. Planning, implementing, and evaluating an ecological, educational program for children and their families.
 QP: FCE 369AFCE 369B QA: FCE 464 FCE 464A FCE 464C FCE 468
- 441. Home Economics Education Programs**
 Fall. 2(2-0)
 R: Not open to freshmen and sophomores.
 Types, functions, and purposes of various home economics education programs, and operational issues.
 QA: TE 442 TE 331
- 442*. Ethnic Minority Families in America**
 Fall, Spring. 3(3-0)
 R: Juniors and Above
 Historical, structural, functional components of selected ethnic minority family systems in America. Centers on selected minority family systems, life styles, pressures, adaptations, viability, and continuity.
 QA: FCE 442
- 444*. Interpersonal Relationships in the Family**
 Fall, Spring. 3(3-0)
 P: One course in ISS R: Juniors and Above
 Personal awareness and interpersonal relationships within the family system. Group interaction focuses on family experiences.
 QA: FCE 444
- 445*. Human Sexuality**
 Fall, Spring. 3(3-0)
 R: Not open to freshmen and sophomores.
 Family and psychosocial factors affecting the development of a person's sexuality across the life cycle. Reciprocal impact on society and the legal system.
 QA: FCE 445
- 452. Consumer Issues**
 Spring. 3(3-0)
 P: FCE 238. R: Not open to freshmen and sophomores.
 Issues in contemporary consumer ecosystems.
 QP: EC 201 EC 202 QA: FCE 436
- 454. Family Financial Management**
 Spring. 3(3-0)
 P: FCE 238. R: Not open to freshmen and sophomores.
 Financial management strategies of families during the life cycle. Income support programs.
 QP: FCE 238 EC 202 QA: FCE 438
- 458*. Family Financial Advising**
 Fall of odd-numbered years. 2(2-0)
 P: FCE 454 or concurrently. R: Not open to freshmen and sophomores.
 Advising strategies for working with families with financial concerns.
 QP: FCE 438 QA: FCE 494
- 470*. Current Issues in Family and Child Ecology**
 Spring. 3 to 9 credits in increments of 3 credits. May reenroll for a maximum of 9 credits.
 R: Not open to freshmen and sophomores.
 Legislation, current events, and issues affecting families and children. Implications for professional decisions and actions.
 QA: FCE 470
- 472. Evaluation of Human Service Programs**
 Spring. 3(3-0)
 P: FCE 370. R: Not open to freshmen and sophomores.
 Models of program evaluation for human service-related programs.
 QP: FCE 340 QA: FCE 491
- 473. Administration of Child and Family Programs**
 Spring. 3(3-0)
 P: FCE 370 or FCE 424. R: Open only to seniors and graduate students in *Child Development, Child Development and Teaching, Community Services, Community Services-Urban Studies, and Family Community Services*. Approval of department.
 Administrative and ecological principles. Program linkages with agencies and their regulations.
 QA: FCE 467
- 490*. Independent Study**
 Fall, Spring, Summer. 1 to 5 credits.
 May reenroll for a maximum of 9 credits.
 R: Not open to freshmen and sophomores.
 Approval of instructor; application required.
 Individual study of selected topics under faculty guidance.
 QA: FCE 495
- 490H*. Honors Independent Study**
 Fall, Spring, Summer. 1 to 5 credits.
 May reenroll for a maximum of 9 credits.
 R: Not open to freshmen and sophomores.
 Open only to honors students. Approval of instructor; application required.
 Honors individual study of selected topics with faculty guidance.
 QA: FCE 495
- 492. Internship Seminar**
 Fall, Spring. 2(2-0)
 P: FCE 370. R: Open only to Family Community Services, Home Economics Education, and Family and Consumer Resources majors.
 Preparation for professional internship.
 QP: FCE 340 QA: FCE 497
- 493. Internship**
 Fall, Spring, Summer. 3 to 9 credits in increments of 3 credits.
 P: FCE 492 or concurrently. R: Open only to Family and Consumer Resources, Family Community Services, and Home Economics Education seniors.
 Professional experience in a community organization.
 QP: FCE 221 FCE 340FCE 492 QA: FCE 498
- 801*. Family Ecosystems**
 Fall, Spring. 3(3-0)
 R: Open only to graduate students.
 Family viewed from ecosystems perspective. Assessment tools used to analyze family systems.
 QA: FCE 835
- 810*. Theories of Human Development**
 Fall. 3(3-0)
 R: Open only to graduate students.
 Major theories of development; research findings and the validity of theoretical positions.
 QA: FCE 819
- 811*. Child Development: Ecological Perspectives**
 Fall of even-numbered years. 3(3-0)
 P: FCE 810 or concurrently; FCE 880. R: Open only to graduate students.
 Ecological factors that influence family functioning and child outcomes.
 QP: FCE 819 FCE 891
- 812*. Adolescence in the Family: Ecological Perspectives**
 Spring of even-numbered years. 3(3-0)
 R: Open only to graduate students.
 Ecological factors that influence family functioning and adolescent outcomes.
 QA: FCE 857
- 813*. Adulthood and Aging in the Family: Ecological Perspectives**
 Fall of odd-numbered years. 3(3-0)
 P: FCE 413. R: Open only to graduate students.
 Adult development and aging in the contexts of family and community. Family relationships in adulthood and aging.
 QP: FCE 479 FCE 480 QA: FCE 850
- 814*. Parenthood and Parent Education**
 Spring of odd-numbered years. 3(3-0)
 P: FCE 811, or FCE 810; FCE 812. R: Open only to graduate students.
 Influence of parents on children and youth and factors that influence parenting. Approaches to providing education and support for parents.
 QP: FCE 891 FCE 819FCE 857 QA: FCE 845 FCE 846
- 821*. Early Childhood Education: Curricular Approaches**
 Spring. 3(3-0)
 P: FCE 810. R: Open only to graduate students.
 Theoretical background, content, and evaluation of early childhood curricula and programs. Influence of research and public policy.
 QP: FCE 819 QA: FCE 841
- 822*. Assessment of the Young Child**
 Fall of even-numbered years. 3(3-0)
 R: Open only to graduate students.
 Assessment instruments and procedures for children from birth to age seven. Techniques for assessing physical, social, emotional, and cognitive development of young children.
 QA: FCE 842
- 823*. Infant Programs and Practices**
 Spring of odd-numbered years. 3(2-3)
 P: FCE 810 or PSY 845. R: Open only to graduate students.
 Concepts of early childhood education applied to children from birth to age three. Evaluation of research, learning materials, and activities for infants at home and in small group settings. Field work required.
 QP: FCE 819 ORAPR DEPT QA: FCE 848 FCE 849
- 830*. Survey of Marriage and Family Therapy Theories**
 Fall. 3(3-0)
 R: Open only to graduate students.
 Contemporary ecosystem theories of marriage and family therapy.
 QA: FCE 859
- 831*. Treatment Processes in Marriage and Family Therapy**
 Spring. 3(2-3)
 P: FCE 830. R: Open only to graduate students. Open only to Marriage and Family Therapy majors.
 Case management and treatment processes for problems affecting system change and family functioning.
 QP: FCE 822
- 832*. Ethics, Law, and Professional Development**
 Spring of even-numbered years. 3(3-0)
 R: Open only to graduate students.
 Ethics and laws affecting family life professionals. Developing a professional identity. Management of private practice and consulting services.
 QA: FCE 858

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- 845*.** **Foundations of Family Study**
Fall. 3(3-0)
R: Open only to graduate students.
Historical and cultural perspectives of the family; conceptual approaches to family study; sensitivity to family diversity; key issues related to the life cycle. Field observations required.
- 847*.** **Theories of the Family**
Spring. 3(3-0)
P: FCE 845. R: Open only to graduate students.
Perspectives on the family. Relationships of theory, research, and practice.
QA: FCE 854
- 848*.** **Divorce and Remarriage Interventions**
Fall of even-numbered years. 3(3-0)
R: Open only to graduate students.
Impact of changing marital status on the individual, family and society. Current research, laws, educational programming for clinical treatment strategies.
QA: FCE 856
- 850*.** **Theories of Management and Decision Making in the Family**
Fall of even-numbered years. 3(3-0)
R: Open only to graduate students.
Theories of decision making in the context of family management. Application to human resource development in the family. Integrated ecological approach.
QA: FCE 804 FCE 832
- 851*.** **Family Economics**
Fall of odd-numbered years. 3(3-0)
P: One course in economics. R: Open only to graduate students.
The household as an economic unit in consumer and producer roles. Economic functions and processes.
QA: FCE 837 FCE 838
- 871*.** **Methods of Teaching Adults**
Fall of odd-numbered years. 3(3-0)
R: Open only to graduate students.
Uses of human and family ecological perspectives in teaching adult audiences.
QA: FCE 825
- 872*.** **Program Design and Development**
Fall of even-numbered years. 3(3-0)
R: Open only to graduate students.
Processes involved in program design and development for human service organizations and agencies.
- 873*.** **Administration and Management of Human Services Programs**
Spring of even-numbered years. 3(3-0)
P: FCE 872 R: 6 and above
Analysis of the process and procedures involved in management and administration of human services programs.
- 875*.** **Curriculum and Evaluation in Home Economics Education**
Summer of odd-numbered years. 3(3-0)
R: Open only to graduate students.
Relationships between curriculum and evaluation. Processes used in developing curriculum and evaluation models.
QA: FCE 823 FCE 827
- 880*.** **Research Methods in Family and Child Ecology**
Fall, Spring. 4(3-3)
R: Open only to graduate students.
Methods applied to problem definition, research design, and analysis.
QA: FCE 891
- 890*.** **Independent Study**
Fall, Spring, Summer. 1 to 5 credits.
May reenroll for a maximum of 9 credits.
R: Open only to graduate students.
Individual study of selected topics with faculty guidance.
QA: FCE 897
- 891*.** **Topics in Family and Child Ecology(MTC)**
Fall. 2 to 3 credits. May reenroll for a maximum of 12 credits.
R: Open only to graduate students.
Family science, early childhood development, problems in programs, or services for families.
QA: FCE840
- 891A*.** **Topics in Family and Child Ecology: Families in Poverty**
. 3(3-0)
R: Open only to graduate students.
Causes of poverty. Poverty and family functioning. Proposals for breaking the poverty cycle.
- 891B*.** **Topics in Family and Child Ecology: Child Development Across Cultures**
. 3(3-0)
R: Open only to graduate students.
Development of children in different societies. Biological, ecological, social, and cognitive factors influencing growth and behavior. Family influences.
QA: FCE 844
- 891C*.** **Topics in Family and Child Ecology: Family Assessment**
. 3(3-0)
P: FCE 880; FCE 830 or FCE 832. R: Open only to graduate students.
Theoretical, research, and clinical issues in measuring family and individual characteristics. Critique of clinical and research assessment tools.
- 891D*.** **Topics in Family and Child Ecology: Values and Family Behavior**
. 3(3-0)
R: Open only to graduate students.
Role of values in human development and family behavior. Theoretical approaches to the study of human values in the family context. Measurement of human values.
QA: FCE 831
- 891E*.** **Topics in Family and Child Ecology: Play in Human Development**
. 2(2-0)
P: FCE 810. R: Open only to graduate students.
Role of play in human development. Theory related to play behavior. Management of play to optimize developmental capacity.
QP: FCE 819 QA: FCE 843
- 892*.** **Seminar in Family and Child Ecology**
Fall, Spring. 1 to 4 credits. May reenroll for a maximum of 12 credits.
R: Open only to graduate students.
Selected content in family relationships, family economics, human development in the family, community services, or programs for children and families.
QA: FCE 801 FCE 802
- 894*.** **Laboratory and Field Experience**
Fall, Spring, Summer. 1 to 4 credits.
May reenroll for a maximum of 8 credits.
R: Open only to graduate students in the Department of Family and Child Ecology.
Supervised observation, practica, or internships.
QA: FCE 898
- 899*.** **Master's Thesis Research**
Fall, Spring, Summer. 1 to 6 credits.
May reenroll for a maximum of 12 credits.
R: Open only to graduate students in the Department of Family and Child Ecology.
QA: FCE 899
- 902*.** **Advanced Marriage and Family Therapy Theories**
Fall of odd-numbered years. 3(3-0)
May reenroll for a maximum of 12 credits.
P: FCE 830. R: Open only to graduate students.
Selected theoretical perspectives in marriage and family therapy and related therapy techniques.
QP: FCE 859
- 904*.** **Family Ecology Theory Construction**
Fall of odd-numbered years. 3(3-0)
P: FCE 801; FCE 810 or FCE 847 or FCE 850. R: Open only to graduate students.
Integration and application of concepts in constructing family ecology theory. Theory development strategies.
QP: FCE 835 ANDFCE 819ORFCE 854 QA: FCE 935
- 980*.** **Advanced Research Methods (MTC)**
Fall, Spring, Summer. 1 to 4 credits.
May reenroll for a maximum of 9 credits.
P: FCE 880. R: Open only to graduate students.
Research design, measurement and implementation.
QP: FCE 891 QA: FCE 894
- 980A*.** **Qualitative Research Methods**
. 3(3-0)
P: FCE 801, FCE 880. R: Open only to graduate students.
Theoretical and applied experience related to qualitative research design and methodology.
QP: FCE 835 FCE 891 QA: FCE 894
- 980B*.** **Advanced Research Methods in Marriage and Family Therapy**
. 1(1-0)
P: FCE 880, FCE 840, 6 credits of FCE 902, FCE 893. C: FCE 993 R: Open only to graduate students in the Marriage and Family Therapy emphasis of Family and Child Ecology.
Methodological issues. Research design, measurement and analysis appropriate for assessing effectiveness of family therapy. Development of a family therapy research proposal.
- 991*.** **Topics in Family and Child Ecology (MTC)**
Fall, Spring, Summer. 2 to 3 credits.
May reenroll for a maximum of 12 credits.
R: Open only to graduate students.
Topics and problems in programs and services for families.
- 991A*.** **Sex Therapy**
. 3(3-0)
P: FCE 445, approval of department. R: Open only to graduate students in the Marriage and Family Therapy emphasis of Family and Child Ecology.
Major models of sex therapy utilized in marriage and family therapy. Etiology and treatment of major sexual dysfunctions.

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991B* Marriage and Family Therapy Supervision
3(2-3)
R: Open only to graduate students in the Marriage and Family Therapy emphasis of Family and Child Ecology. Approval of department. Models of marriage and family therapy and related supervision principles. Development of perceptual, cognitive, and executive supervisory skills. Ethical, legal, educational issues.

993* Internship
Fall, Spring, Summer. 1 to 9 credits. May reenroll for a maximum of 12 credits.
R: Open only to Family and Child Ecology graduate students. Approval of department. Supervised practicum, or internship.
QA: FCE 901

999* Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. May reenroll for a maximum of 50 credits.
R: Open only to majors in Family Ecology.
QA: FCE 999

FAMILY MEDICINE FM

590* Special Problems in Family Medicine
Fall, Spring, Summer. 1 to 8 credits. May reenroll for a maximum of 32 credits.
R: Open only to graduate-professional students in the colleges of Osteopathic and Human Medicine. Approval of department. Each student works under faculty direction on an experimental, theoretical, or applied problem.
QA: FM 590

601* Clinical Practicum in Family Medicine
Fall, Spring, Summer. 4 to 24 credits in increments of 2 credits. May reenroll for a maximum of 24 credits.
R: Open only to graduate-professional students in the College of Osteopathic Medicine. Units I and II. Direct involvement in a family practice emphasizing patient, office, and personnel management.
QA: FM 600

620* Directed Studies
Fall, Spring, Summer. 2 to 24 credits in increments of 2 credits. May reenroll for a maximum of 48 credits.
R: Open only to graduate-professional students in the colleges of Osteopathic and Human Medicine. Approval of department. Individual or group projects on special problems related to family medicine.
QA: FM 620

640* Principles of Family Medicine I
Fall. 1(00-04)
R: Open only to graduate-professional students in the College of Osteopathic Medicine. Unit I; Systems Biology course or concurrently. Preceptorship experience in family medicine taught by faculty and clinical preceptors at multiple sites.
QP: PHM 520 QA: FM 652 FM 662

650* Principles of Family Medicine II
Spring. 1(00-04)
P: FM 640. R: Open only to graduate-professional students in the College of Osteopathic Medicine. Unit I; Systems Biology course or concurrently. Continuation of FM 640.
QP: FM 652 PHM 520 QA: FM 672 FM 682

FAMILY PRACTICE FMP

515. Health Care in Underserved Areas
Fall of even-numbered years. 2 to 3 credits. Interdepartmental with the Department(s) of Family Medicine.
R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Professional, economic, and personal issues confronting the physician practicing in medically underserved areas. Impact of practice location, federal programs, changing patterns of practice, health maintenance organizations.

516. Migrant Worker Health Care
Spring. 2 to 4 credits. May reenroll for a maximum of 8 credits. Interdepartmental with the Department(s) of Family Medicine.
R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Health beliefs, patient attitudes, economic situations and medical problems of migrant agricultural workers. Introduction to occupational medicine in the agricultural sector.

517. Introduction to Sports Medicine
Fall. 2(2-0) Interdepartmental with the Department(s) of Osteopathic Medicine.
R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Causes, diagnosis, treatment, and prevention of common sports injuries. Drugs, nutrition, exercise physiology and sports psychology. Emphasis on family practice approach to sports medicine.

518* Sports Medicine II
Spring. 1(0-2)
P: FMP 517 R: Grad Prof Stud in College of Human and Osteopathic Medicine Students in College of Nursing
The course is intended to provide the medical student or graduate level student with an awareness of and experience in multidisciplinary aspects of sports medicine through direct observations and hands-on tutorials
QA: FMP

520. Primary Care in Developing Countries
Fall of odd-numbered years. 2(2-0)
R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Practical skills for medical problem solving in developing countries: physician experiences, cross-cultural training, instruction of health workers, resource allocation; coping with special challenges, e.g., malnutrition.

580. Special Topics in Family Practice
Fall, Spring, Summer. 2 to 3 credits. May reenroll for a maximum of 6 credits.
R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Exploration of special aspects of family practice. Possible examples include ethnicity and aging, clinical nutrition, sports medicine, death and dying, health care of women, research methods in primary care.

602* Clinical Medicine in the Community
Fall, Spring, Summer. 6(-)
P: Passed preclinical curriculum R: Grad Professional Students in College of Human Medicine
Data gathering with formulation and presentation of plans for patients. Assessment of readiness for clinical clerkships. Exposure to community hospitals and out-patient settings
QA: FMP 602

607* Ambulatory Care Clerkship
Fall, Spring, Summer. 1 to 3 credits. Interdepartmental with the Department(s) of Medicine, Pediatrics.
P: FMP 602 R: Graduate Professional Students in College of Human Medicine
Outpatient experience, lasting an equivalent of 36 half days and extending over a minimum of 26 weeks. Continuous and comprehensive patient care under supervision of appropriate physicians
QP: FMP 602 QA: FMP 607 PHD 607 MED 607

610* Family Practice Clerkship
Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 6 credits.
P: FMP 602 R: Graduate Professional students in College of Human Medicine
Experience in family practice in diverse settings. Emphasis on primary, continuing and comprehensive care
QP: FMP 602 QA: FMP 610

612* Inpatient Clerkship in Family Practice
Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 6 credits.
P: FMP 602 R: Grad professional students in College of Human Medicine
Demonstration of the role of the family physician in the hospital setting, including management of consultations and referrals
QP: FMP 602 QA: FMP 612

615* Medical Care in Developing Countries
Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 6 credits.
P: FMP 602 R: Grad Professional students in College of Human Medicine
Supervised experience in hospitals, outpatient clinics, villages and medical research centers in developing countries
QP: FMP 602 QA: FMP 615

617* Sports Medicine Clerkship
Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 6 credits.
P: FMP 602 R: Grad Professional students in College of Human Medicine
Clinical elective experience concentrating on the primary care aspects of sports medicine. Involves care of acute and chronic sports injuries, mostly of college level athletes
QP: FMP 602 QA: FMP 617

FINANCE AND INSURANCE FI

311* Financial Management
Fall, Spring, Summer. 3(3-0)
P: ACC 202 or ACC 230 or ACC 251H or HRI 302. R: Open only to juniors and seniors in the College of Business and in programs that list FI 311 as a catalog requirement.
Optimal management of the firm's assets and financing requirements. Analysis of financial statements, financial markets, risk, valuation, long-term and short-term financing and investment. International and ethical implications.
QP: ACC 202 ORACC 230ORACC 251H QA: FI 391

312* Introduction to Investments
Fall, Spring, Summer. 3(3-0)
P: FI 311. R: Open only to majors in the College of Business.
Theoretical and empirical analyses of securities. Risk and return formation. Security analysis and concepts of market efficiency. Common stocks, bonds, options, futures, and international securities.
QP: FI 391 QA: FI 392