520 Primary Care in Developing Countries
Fall, Spring. 2(2-0) R: Open only to graduate-professional students in the College of Human Medicine or College of 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. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. 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 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: Completion of preclinical curriculum. R: Open only to graduate-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 ambulatory settings.

605 Comprehensive Care Clerkship
Fall, Spring, Summer. 4 to 20 credits. A student may earn a maximum of 20 credits in all enrollments for this course. Interdepartmental with Human Medicine. Administered by Human Medicine. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Comprehensive and longitudinal management of patients in ambulatory care settings.

608 Family Practice Clerkship
Fall, Spring, Summer. 6 to 18 credits. A student may earn a maximum of 36 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Clinical experience in primary care in family physicians' offices and in hospitals.

610 Elective Clerkship in Family Practice
Fall, Spring. Summer. 6 to 12 credits. A student may earn a maximum of 18 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to third or fourth year graduate-professional students in College of Human Medicine.

Experience in family practice in diverse settings. Primary, continuing and comprehensive care.

611 Family Practice Geriatric Clerkship
Fall, Spring, Summer. 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (FMP 610 and MED 608 and PHD 600 and OGR 608 and OGR 608 and SUR 608) R: Open only to graduate-professional students in College of Human Medicine.

Clerkship in the primary medical care of older adults.

612 Inpatient Clerkship in Family Practice
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Demonstration of the role of the family physician in hospital settings. Management of consultations and referrals.

613 Clinical Research in Rural Practice
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Investigation of clinical topics in rural family practice. Application of survey and epidemiologic research methods. Use of clinical data.

615 Medical Care in Developing Countries
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Supervised experience in hospitals, outpatient clinics, and medical research centers in developing countries.

617 Sports Medicine Clerkship
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Primary care aspects of sports medicine. Care of acute and chronic sports injuries, mostly of college level athletes.

619 Ambulatory Care Clerkship
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 15 credits in all enrollments for this course. Interdepartmental with Medicine; Pediatrics. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

Continuous and comprehensive patient care under supervision of appropriate physicians.

633 Extended Clinical Experience
Fall, Spring, Summer. 6(6-0) P:NM: (FMP 608)

Based in community hospitals and ambulatory sites, this is a 4 week clinical experience emphasizing interviewing skills, history, physical exam, problem solving and therapy.

635 Core Competencies I
Fall. 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Human Medicine; Medicine; Pediatrics and Human Development. Administered by Human Medicine. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

A weekly seminar addressing core knowledge and skills from an interdisciplinary perspective.

636 Core Competencies II
Spring. 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Human Medicine; Medicine. Administered by Human Medicine. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

A weekly seminar addressing core knowledge and skills from an interdisciplinary perspective.

821 Epidemiology of the Health and Cognitive Status of the Elderly
Fall of odd years. 3(3-0) Interdepartmental with Epidemiology. Administered by Epidemiology. P:NM: (EPI 810 or concurrently) R: Open only to master's students in the Epidemiology major or approval of department. SA: FMP 821, HM 821

Interpretation of research on the health and cognitive status of elderly. Interpretation of statistical tests of hypotheses. Conclusions based on data.

FINANCE

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) P:NM: 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 College of Business. Not open to students with credit in FI 320. Optimal management of the firm’s assets and financing requirements. Analysis of financial statement elements, financial markets, risk, valuation, long-term and short-term financing and investment. International and ethical implications.

312 Introduction to Investments
Fall, Spring, Summer. 3(3-0) P:M: (FI 311) 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.

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.

413 Management of Financial Institutions
Fall, Spring, Summer. 3(3-0) P:M: (FI 311) R: Open only to students in the College of Business. Management, decision-making and policy formulation for depository and non-depository financial institutions. Emphasis on commercial banking, with attention also to S&Ls, credit unions and non-bank financial institutions.

414 Advanced Business Finance (W)
Fall, Spring, Summer. 3(3-0) P:M: (FI 312 or concurrently and FI 413 or concurrently) and completion of Tier I writing requirement. R: Open only to seniors in the College of Business.

Advanced financial management of business firms. Theoretical and case applications that integrate capital budgeting, valuation, capital structure, mergers, international business finance, working capital management and ethical considerations.

425 Law and Economics
Fall. 3(3-0) Interdepartmental with Economics. Administered by Department of Economics. P:M: (EC 201 or EC 251H) Application of economic analysis to the law. Property rights, takings, the Coase Theorem. The economics of regulation, crime and punishments, liability law, and public choice.

435 Securities Law and Regulation
Fall, Spring. 3(3-0) P:M: (FI 311 and GBL 395) R: Open only to juniors or seniors in the College of Business. Basic coverage of the Securities Acts of 1933 and 1940. Registration requirements, exemptions from the law, theory of a sale, liability, shareholder squeeze, market manipulation, and international securities issues.

451 International Financial Management
Fall, Spring. Summer. 3(3-0) P:M: (FI 311) R: Open only to juniors or seniors in the College of Business. Financial management of multinational firms. Theoretical and applied aspects of international capital budgeting, capital structure, cash management, and exchange-rate risk. Ethical considerations.
FISHERIES AND WILDLIFE

Department of Fisheries and Wildlife

College of Agriculture and Natural Resources

100 Introduction to Fisheries and Wildlife
Fall, Spring. 3(2-2) R: Open only to freshmen or sophomores.

Fisheries and wildlife management, history, philosophy and careers; conservation ethics.

109 Conservation of Freshwater Ecosystems
Fall. 3(3-0) R: Not open to students in the Department of Fisheries and Wildlife. Not open to students with credit in FW 414 or FW 472 or ZOL 431.


110 Conservation and Management of Marine Resources
Spring. 3(3-0)

Marine environment, resource distribution, and human impacts on selected marine commercial fisheries. Conflicts in management goals between government and industry. Management goals and techniques in preserving and conserving marine resource biodiversity.

203 Resource Ecology
Fall, Spring. 3(3-0)

Basic concepts of ecology which provide a foundation for examining environmental problems and their solutions.

205 Principles of Fisheries and Wildlife Management
Spring. 3(3-0)

Characteristics of the fish and wildlife resource. Ecological and societal factors influencing the management of fish and wildlife. Management techniques.

221 Introduction to Gender and Environmental Issues
Spring. 3(3-0) Interdepartmental with Forestry; Public Resource Management; Resource Development; Women's Studies. R: Not open to freshmen.


275 Seafood Systems Management
Spring. 3(2-0) Interdepartmental with Food Science; Animal Science. Domestic and international perspectives on major aquatic foods. Cultural and nutritional value; wild harvest; aquaculture; processing technology; food handling and food safety.

284 Natural History and Conservation in Michigan
Fall. 3(2-3)

Identification, habitat requirements, and distribution of Michigan’s flora and fauna. Interrelationships which influence natural resource use. Field trips required.

304 Wildlife Biometry
Fall. 3(2-3) P:M: (MTH 116 or MTH 104 or concurrently or LBS 117) P:NM: (ZOL 355)

Quantitative techniques to analyze and interpret fisheries and wildlife data.

326 Introduction to Waste Management
Fall. 3(3-0) Interdepartmental with Resource Development. Administered by Department of Resource Development. P:NM: (RD 200)

Waste management definitions, techniques, technologies, and strategies. Integrative approach to waste management as an environmental, social, and political subject.

328 Vertebrate Pest Control
Spring. 3(3-0) P:NM: (BS 110)

Role of vertebrate animals as agents damaging to human interests. Damage evaluation. Damage control strategies and techniques.

346 Ecological Problem Solving
Spring. 3(2-2) P:M: (MTH 124 or concurrently or MTH 132 or concurrently) and (FW 324 and ZOL 355) or (BE 230)

Application of ecological concepts and models to problems in natural resource and ecosystem management.

369 Introduction to Zoo and Aquarium Science
Spring. 3(3-0) Interdepartmental with Zoology; Landscape Architecture; Veterinary Medicine. Administered by Department of Zoology. P:M: (BS 110 or LBS 144 or LBS 148H)

Fundamentals of zoo and aquarium operations including research, interpretation, design, nutrition, captive breeding, conservation, ethics and management.

404 Women and the Law in the United States
Fall of odd years. Spring of odd years. 3(3-0) Interdepartmental with Women's Studies. Administered by Women's Studies Program. P:NM: (WS 201 or WS 202 or WS 203) R: Not open to freshmen or sophomores.

Law in the United States as a vehicle for structuring and maintaining women's social roles, and for social change.

410 Upland Ecosystem Management
Spring. 3(2-3) P:M: (ZOL 355 or FOR 404) and completion of Tier I writing requirement. P:NM: (FW 364) for students in FW major.

Analysis and management of upland ecosystems to meet wildlife management and biodiversity objectives. Mitigation of human impact.

412 Wetland Ecosystem Management
Fall. 3(3-0) P:M: (ZOL 355) and completion of Tier I writing requirement. P:NM: (FW 364) for students in FW major.

Ecosystem components and processes applied to wetland management. Mitigation of human impact.

413 Wildlife Research and Management Techniques
Fall. 4(2-4) Summer. 4 credits. Given only at W.K. Kellogg Biological Station. P:NM: (FW 324 and FW 410 and FW 412 or concurrently or LBS 117) P:NM: (ZOL 355)

Field techniques used in collecting, analyzing, and communicating data on wild animal populations and their habitats. Experiential learning methods emphasized.

414 Aquatic Ecosystem Management
Fall. 3(3-0) P:M: (ZOL 355) and completion of Tier I writing requirement. P:NM: (FW 364) for students in FW major.

Management of aquatic habitats and populations for ecological and socioeconomic objectives; human impacts on aquatic ecosystems.

419 Applications of Geographic Information Systems to Natural Resources Management
Spring. 4(2-4) Interdepartmental with Forestry; Geography; Park, Recreation and Tourism Resources; Resource Development; Biosystems Engineering. P:NM: (GEO 221)

The application of geographic information systems, remote sensing, and global positioning systems to integrated planning and management for fish, wildlife, and related resources.

420 Stream Ecology
Fall. 3(3-0) Interdepartmental with Zoology. P:M: (BS 110) P:NM: (CEM 141 and ZOL 355)

Biological and environmental factors determining structure and function of stream ecosystems.

422 Aquatic Entomology
Fall of odd years. 3(2-3) Interdepartmental with Entomology; Zoology. Administered by Department of Entomology. P:M: (BS 110) SA: ENT 420

Biology, ecology and systematics of aquatic insects in streams, rivers and lakes. Field trips and aquatic insect collection required.

424 Population Analysis and Management
Fall. 4(3-2) P:M: (FW 324 and ZOL 355)

Statistical, ecological and management concepts and methods needed to analyze and interpret demographic data and manage fish and wildlife populations.

431 Comparative Limnology
Summer. 4(2-6) Given only at W.K. Kellogg Biological Station. Interdepartmental with Zoology; Botany and Plant Pathology. Administered by Department of Zoology. P:NM: (CEM 141 or CEM 151) and (ZOL 355) Not open to students with credit in FW 472.

Physical, chemical, and biological aspects of lakes and streams. Introduction to freshwater biology, and population and community ecology.