

Family Practice–FMP

520 Primary Care in Developing Countries
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, Summer. 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:M: (FMP 610 and MED 608 and PHD 600 and PSC 608 and OGR 608 and SUR 608)

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, villages 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:M: (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.

637 Core Competencies III
Spring, Summer. 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Human Medicine; Medicine; Obstetrics, Gynecology and Reproductive Biology; Pediatrics and Human Development; Surgery. 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

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) 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 statements, 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 1934. Registration requirements, exemptions from the law, theory of a sale, liability, shareholder suffrage, 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.
- 455 Computer Applications for Financial Modeling**
Fall, Spring, Summer. 3(3-0) P:M: (FI 311) and (MSC 317 or STT 422 or STT 442) R: Open only to students in the Finance major.
Application of personal and mainframe computers and software to corporate, personal and international financial analysis.
- 478 Investment Strategies and Speculative Markets**
Fall. 3(3-0) P:M: (FI 312)
Pricing, trading, hedging and speculating in financial markets. Effects of risk and maturity on security prices. Strategies with futures, options, and other financial instruments in domestic and international markets. Ethical considerations.
- 490 Independent Study**
Fall, Spring, Summer. 1 to 3 credits. R: Open only to seniors. Approval of department.
Supervised independent study of special topics in finance.
- 491 Topics in Finance**
Fall of even years. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (FI 311) R: Open only to juniors or seniors.
Current and emerging issues in finance to supplement and enrich existing courses.
- 801 Managerial Finance**
Fall, Spring. 3(3-0) P:NM: (ACC 800) R: Open only to students in the Program in Professional Accounting, to MBA students, and to students in programs for which FI 801 is a catalog-listed requirement.
Short-, intermediate- and long-term problems. Financial planning and control. Applications in domestic and international settings.
- 812 Financial Management and Strategy**
Summer. 3(3-0) RB: undergraduate degree in Accounting R: Open only to Master of Science students in Accounting and Business Processes.
Financial planning and control using financial theory and management techniques. Analysis of financial markets and risks and how they affect short- and long-term investment and financing. Applications in domestic and international settings.
- 841 Risk Management for Commercial and Public Entities**
Fall. 3(3-0) R: Open only to graduate students in the College of Business.
Analysis of exposures, risk management alternatives, and their social, legal and economic implications. Cost and benefit analysis of decisions.
- 844 Corporate Financial Strategies**
Spring. 3(3-0) P:M: (MBA 822)
Managerial decision-making as it relates to key corporate financial strategic policies. Analysis through case studies.
- 851 Introduction to Investments**
Fall, Spring. 3(3-0) P:NM: (FI 801) R: Open only to students in the Program in Professional Accounting and to MBA students.
Security risk and return concepts. Security analysis and concepts of market efficiency. Emphasis on equity investments. Bonds, options, futures, and international securities.
- 852 Financial Markets and Strategies**
Spring. 3(3-0) P:NM: (FI 851) R: Open only to students in the Program in Professional Accounting and to MBA students.
Theories concerning domestic and international financial markets and instruments. Effects of risk and maturity on prices. Arrangement of business and portfolio risk and returns with options and futures.
- 860 International Financial Management**
Fall. 3(3-0) P:NM: (FI 801) R: Open only to graduate students in Business.
Capital budgeting, capital structure decisions, cash management, foreign currency markets and exchange rate risk management. Ethical and tax considerations.
- 862 Advanced Managerial Finance**
Fall, Spring. 3(3-0) P:NM: (FI 801) R: Open only to graduate students in Business.
Financial planning and control using financial theory and management techniques. Applications in international settings. Use of business cases.
- 878 Bank Management**
Spring. 3(3-0) P:NM: (FI 801) R: Open only to graduate students in Business.
Nature, structure and management of commercial banks. Focus on products and services offered, risks, policies, and strategies. Applications in domestic and international settings.
- 890 Independent Study**
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to graduate students in Business. Approval of department.
Faculty-guided research projects.
- 891 Topics In Finance**
Fall of even years. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (FI 801 or MBA 806) or (PIM 841 and PIM 842 and equivalent)
Current and emerging issues in corporate finance, investments and financial modeling to supplement and enrich existing courses.
- 980 Theory of Finance**
Fall. 3(3-0) R: Open only to Ph.D. students in Business or approval of department.
Introduction to the financial theory of the firm. Theoretical models dealing with capital structure, cost of capital, dividend policy and leasing.
- 981 Corporate Finance Theory**
Spring of odd years. 3(3-0) P:NM: (FI 980) R: Open only to Ph.D. students in Business.
Theoretical foundations. Recent empirical research in capital structure, dividend policy, and agency theory.
- 982 Investment Theory**
Spring of even years. 3(3-0) P:NM: (FI 980) R: Open only to Ph.D. students in Business.
Market efficiency, stochastic processes, option pricing, efficient set mathematics, intertemporal asset pricing and arbitrage pricing theory.
- 993 Finance Workshop**
Fall. 3(3-0) P:NM: (FI 980) R: Open only to Ph.D. students in Finance.
Critical evaluation of original research papers by faculty and students.

Finance—FI

- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to Ph.D. students in Finance and Insurance.
Doctoral dissertation research.

FISHERIES AND WILDLIFE FW

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.
Fundamentals of freshwater ecology emphasizing human impacts. Basic ecological principles of conservation and management. Applied problems: their symptoms, causes, and solutions.
- 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.
- 207 Great Lakes: Biology and Management**
Fall. 3(3-0) Interdepartmental with Resource Development.
Living aquatic resources of the Great Lakes: environmental history, biological resources and their management. Policy issues.
- 211 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.
The concept of gender. Overview of environment and habitat. Historical gender roles in environmental management. Gender-based theoretical perspectives. Case studies on developing and developed countries. Environmental management with emphasis on fisheries, wildlife and wetlands. Women environmental professionals.

- 275 Seafood Systems Management**
Spring. 3(3-0) 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.

- 324 Wildlife Biometry**
Spring. 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.

- 364 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)
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:M: (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.