FAM Family Studies

FAM 250 CONSUMER ISSUES. (3)
A study of consumer issues, rights and responsibilities. Examination of how individual and societal decisions affect quality of life.

FAM 251 PERSONAL AND FAMILY FINANCE. (3)
Management of personal and family financial resources throughout the lifespan. A study of individual and family finances as related to planning, credit, savings, investment, insurance, taxes, housing costs, transportation costs, retirement and estate planning.

FAM 252 INTRODUCTION TO FAMILY SCIENCE. (3)
Introduction to the scientific study of the family. Topics covered will include the important theoretical frameworks in family science, historical trends in marriage and family life, gender role theory, family life cycle theory, parenthood, communication, economics of family life, conflict, divorce, step-families and step-parenting, family strengths. Students will analyze contemporary family issues and take informed, written positions on those issues. FAM 252 is a University Studies Program course.

FAM 253 HUMAN SEXUALITY: DEVELOPMENT, BEHAVIOR AND ATTITUDES. (3)
Study of human sexuality, including the process of gender differentiation, sexual response patterns, sexual behavior and attitudes. Prereq: Three hours in social or behavioral science.

FAM 254 DEVELOPMENTAL PSYCHOLOGY. (3)
An introduction to the principles of developmental psychology as seen in human growth over the entire lifespan, with the primary focus on infancy through adolescence. Emphasis is placed on theory and data relating to the developmental aspects of cognition, language and personality. Prereq: PSY 100. (Same as PSY 223.)

FAM 255 CHILD DEVELOPMENT. (3)
An overview of the various aspects of development (physical, social, emotional, intellectual) in the social context for children prenatally through adolescence. Course will emphasize techniques of directed observation. Lecture, three hours, laboratory, one hour per week.

FAM 256 GUIDANCE STRATEGIES FOR WORKING WITH YOUNG CHILDREN. (3)
Examination of effective guidance strategies for use with young children in an early childhood setting; modifications of experiences for age level, ability, group and individual needs. Application and evaluation of guidance skills in laboratory experience. Lecture, two hours; laboratory, two hours per week. Prereq: FAM 223 (or FAM 254) or FAM 255.

FAM 258 CHILD DEVELOPMENT AND FAMILY LIFE IN JAPAN AND CHINA. (3)
Consideration of structure and function of the family, marriage and kinship patterns, socialization of children and personality development, attitudes and values relating to children, economic practices within the family, and how these family values and patterns in Japan, Mainland China, and Taiwan relate to the historical and philosophical bases of Eastern cultures.

FAM 304 PERSONAL AND FAMILY RISK MANAGEMENT. (3)
An in-depth study of the topic of risk management with an emphasis on applications for individuals and families. Various methods of managing risk will be addressed with the principal focus on insurance as a means for reducing risk associated with property, liability, income, health, and disability protections. Prereq: FAM 251.

FAM 350 CURRICULUM PLANNING IN EARLY CHILDHOOD EDUCATION. (4)
Theories, research and strategies for planning, implementing and evaluating learning experiences for young children (birth - five years). Application in practicum in an early childhood setting. Lecture, two hours; field work, four hours per week. Prereq: Admission to the TEP programs in ECEU or AECH.

FAM 354 THE FAMILY IN CROSS-CULTURAL PERSPECTIVE. (3)
This course approaches the study of the family from a comparative perspective, emphasizing cross-cultural variability in the structure and function of family. Kinship, household formation, sex roles, and socialization are examined in the context of the family, as well as patterns of interaction, personality formation, and family pathology. Prereq: Introductory social science course. (Same as SOC/254.)

FAM 356 MIDDLE CHILDHOOD. (3)
Examination of the various aspects of development including physical, social, emotional and cognitive for children ages 9-12 years. Emphasis is on the current research and theories most relevant to the age group. Prereq: FAM 255 or equivalent.
psychological depression, role overload, being a displaced homemaker, and widowhood problems that particularly affect women, including poverty, provision of child care, menstruation, pregnancy, childbirth, motherhood, and menopause. Modern social from that of males. Consideration is given to uniquely female events such as political and economic forces, help to create important differences in female development as well as demographic, cultural, and historical roots to the present. Using an interdisciplinary focus, the course will examine the shifting boundary between family and community and the interaction between domestic life and demographic, religious, and economic influences in American history. Prereq: FAM 353 or SOC 409 or equivalent. (Same as GEO/GRN 585.)

FAM 509 THE U.S. FAMILY IN HISTORICAL PERSPECTIVE. (3)
A study of American family experience and values from its pre-industrial Anglo-European roots to the present. Using an interdisciplinary focus, the course will examine the shifting boundary between family and community and the interaction between domestic life and demographic, religious, and economic influences in American history. Prereq: FAM 353 or SOC 409 or equivalent. (Same as HIS 596, SOC 509.)

FAM 544 CULTURAL DIVERSITY IN AMERICAN CHILDREN AND FAMILIES. (3)
Study of cultural and linguistic diversity in American children and families, with special emphasis on Kentucky children and families. Consideration of implications for working with young children and families in educational settings. Study of the variations in beliefs, traditions, values and cultural practices within American society, and their effects on the relationships between child, family, and school. Prereq: An advanced undergraduate course in family or child development or consent of instructor.

FAM 550 CHILDREN AND FAMILY IN APPALACHIA. (3)
Exploration of family life and the socialization of children in the Appalachian Southern Highlands from both an historical and a contemporary comparative perspective. Prereq: Six hours of social sciences or consent of the instructor. (Same as ANT 527.)

FAM 551 WOMAN IN CONTEMPORARY SOCIETY. (3)
An examination of the development of modern American women through the life span. The course emphasizes how female biology and socialization, as well as demographic, political and economic forces, help to create important differences in female development from that of males. Consideration is given to uniquely female events such as menstruation, pregnancy, childbirth, motherhood, and menopause. Modern social problems that particularly affect women, including poverty, provision of child care, psychological depression, role overload, being a displaced homemaker, and widowhood are also discussed. Prereq: Six hours of social sciences or consent of instructor.

FAM 474 SPECIAL TOPICS IN FAMILY RESOURCE MANAGEMENT (Subtitle required). (1-3)
Course will focus on selected topics drawn from various areas of family resource management taught by faculty members with special interests and competence. May be repeated to a maximum of six credits under different subtitles. Prereq: Consent of instructor.

FAM 475 SPECIAL TOPICS IN INDIVIDUAL AND FAMILY DEVELOPMENT (Subtitle required). (1-3)
Course will focus on selected topics drawn from various areas of individual and family development taught by faculty members with special interests and competence. May be repeated to a maximum of six credits under different subtitles. Prereq: Consent of instructor.

FAM 486 FIELD EXPERIENCES IN FAMILY RESOURCE MANAGEMENT. (3)
Field training in community setting. Opportunities for developing competencies in planning and conducting individual and small group experiences related to family resource management. Lecture, one hour; laboratory, seven hours per week. May be repeated to a maximum of six credits. Prereq: Senior standing and consent of instructor.

FAM 494 INDEPENDENT WORK IN FAMILY RESOURCE MANAGEMENT. (1-3)
Intensive independent work on specific phases or problems in the field. May be repeated to a maximum of six credits. Prereq: Junior or senior standing.

FAM 495 INDEPENDENT WORK IN INDIVIDUAL AND FAMILY DEVELOPMENT. (1-3)
Intensive independent work on specific phases or problems in the field. May be repeated to a maximum of six credits. Prereq: Junior or senior standing.

FAM 499 INTERNSHIP IN FAMILY LIFE EDUCATION. (3)
Supervised internship in a community or educational setting. Students will be required to design, implement and evaluate a family life education program. Lecture, one hour; laboratory, eight hours per week. May be repeated for a maximum of six credits. Prereq: FAM 399, FAM 473, senior standing, IFDE majors only.

FAM 502 FAMILIES AND CHILDREN UNDER STRESS. (3)
An investigation of the stressors and crises experienced by families and their members and their efforts to cope with them. Special attention is given to prevention, management and enrichment strategies. Implications for practitioners will be drawn from conceptual frameworks and recent research. Prereq: FAM 401.

FAM 509 PARENT-CHILD RELATIONSHIPS ACROSS THE LIFECYCLE. (3)
Exploration of the parenting process from a lifespan perspective. Current theory and research, with childrearing application, will be emphasized. Emphasis will be on parent education methods and the changing parental role over the life cycle. Prereq: FAM 360.

FAM 552 ADMINISTRATION AND SUPERVISION IN EARLY CHILDHOOD EDUCATION PROGRAMS. (3)
A course designed for students preparing to become administrators and supervisors in Early Childhood Education Programs. Consideration is given to program evaluation, personnel training and supervision, appropriate curriculum materials, parent involvement and education, program management and funding. Prereq: FAM 350 or consent of instructor.

FAM 553 PARENT-CHILD RELATIONSHIPS ACROSS THE LIFECYCLE. (3)
Study of the child's development of reasoning and concept formation, perception of reality, and language. Consideration of relevant research and theory and their applications to the education of pre-school children. Examination of the methods and techniques for teaching pre-school children in the areas of math, science, social studies, and language arts. Prereq: FAM 255 or equivalent.

FAM 554 WORKING WITH PARENTS. (3)
Principles, techniques, and resources relevant to working with parents as individuals, couples, and families. Survey of related literature on parent effectiveness and parent education includes related field experiences. Lecture; two hours; laboratory, two hours. Prereq: FAM 350 and six hours of 300 level or above in social and behavioral sciences or consent of instructor.

FAM 555 FOSTERING COGNITIVE DEVELOPMENT IN CHILDREN. (3)
Study of the child's development of reasoning and concept formation, perception of reality, and language. Consideration of relevant research and theory and their applications to the education of pre-school children. Examination of the methods and techniques for teaching pre-school children in the areas of math, science, social studies, and language arts. Prereq: FAM 255 or equivalent.

FAM 556 FAMILIES, LEGISLATION, AND PUBLIC POLICY. (3)
A study of the impact of legislation and public policies on the well being of the family. Emphasis on the involvement of individuals and families with policies and legal resources as a means for realizing satisfactory life styles. Prereq: FAM 252.

FAM 557 INFANT DEVELOPMENT. (3)
The development of the young child during the prenatal period, infancy and toddlerhood. Care and guidance of the child during the first two years of life. Lecture, two hours; laboratory, two hours per week. Prereq: Six hours of child development, psychology or equivalent.

FAM 563 FAMILIES, LEGISLATION, AND PUBLIC POLICY. (3)
A study of the impact of legislation and public policies on the well being of the family. Emphasis on the involvement of individuals and families with policies and legal resources as a means for realizing satisfactory life styles. Prereq: FAM 252.

FAM 564 ADMINISTRATION AND SUPERVISION IN EARLY CHILDHOOD EDUCATION PROGRAMS. (3)
A course designed for students preparing to become administrators and supervisors in Early Childhood Education Programs. Consideration is given to program evaluation, personnel training and supervision, appropriate curriculum materials, parent involvement and education, program management and funding. Prereq: FAM 350 or consent of instructor.

FAM 565 PARENT-CHILD RELATIONSHIPS ACROSS THE LIFECYCLE. (3)
Exploration of the parenting process from a lifespan perspective. Current theory and research, with childrearing application, will be emphasized. Emphasis will be on parent education methods and the changing parental role over the life cycle. Prereq: FAM 360.

FAM 566 WORKING WITH PARENTS. (3)
Principles, techniques, and resources relevant to working with parents as individuals, couples, and families. Survey of related literature on parent effectiveness and parent education includes related field experiences. Lecture; two hours; laboratory, two hours. Prereq: FAM 350 and six hours of 300 level or above in social and behavioral sciences or consent of instructor.

FAM 567 FOSTERING COGNITIVE DEVELOPMENT IN CHILDREN. (3)
Study of the child's development of reasoning and concept formation, perception of reality, and language. Consideration of relevant research and theory and their applications to the education of pre-school children. Examination of the methods and techniques for teaching pre-school children in the areas of math, science, social studies, and language arts. Prereq: FAM 255 or equivalent.

FAM 568 INFANT DEVELOPMENT. (3)
The development of the young child during the prenatal period, infancy and toddlerhood. Care and guidance of the child during the first two years of life. Lecture, two hours; laboratory, two hours per week. Prereq: Six hours of child development, psychology or equivalent.

FAM 569 FAMILIES, LEGISLATION, AND PUBLIC POLICY. (3)
A study of the impact of legislation and public policies on the well being of the family. Emphasis on the involvement of individuals and families with policies and legal resources as a means for realizing satisfactory life styles. Prereq: FAM 252.

FAM 570 PARENT-CHILD RELATIONSHIPS ACROSS THE LIFECYCLE. (3)
Study of the child's development of reasoning and concept formation, perception of reality, and language. Consideration of relevant research and theory and their applications to the education of pre-school children. Examination of the methods and techniques for teaching pre-school children in the areas of math, science, social studies, and language arts. Prereq: FAM 255 or equivalent.

FAM 571 INFANT DEVELOPMENT. (3)
The development of the young child during the prenatal period, infancy and toddlerhood. Care and guidance of the child during the first two years of life. Lecture, two hours; laboratory, two hours per week. Prereq: Six hours of child development, psychology or equivalent.

FAM 572 FAMILIES, LEGISLATION, AND PUBLIC POLICY. (3)
A study of the impact of legislation and public policies on the well being of the family. Emphasis on the involvement of individuals and families with policies and legal resources as a means for realizing satisfactory life styles. Prereq: FAM 252.

FAM 573 PARENT-CHILD RELATIONSHIPS ACROSS THE LIFECYCLE. (3)
Study of the child's development of reasoning and concept formation, perception of reality, and language. Consideration of relevant research and theory and their applications to the education of pre-school children. Examination of the methods and techniques for teaching pre-school children in the areas of math, science, social studies, and language arts. Prereq: FAM 255 or equivalent.

FAM 574 INFANT DEVELOPMENT. (3)
The development of the young child during the prenatal period, infancy and toddlerhood. Care and guidance of the child during the first two years of life. Lecture, two hours; laboratory, two hours per week. Prereq: Six hours of child development, psychology or equivalent.

FAM 575 FAMILIES, LEGISLATION, AND PUBLIC POLICY. (3)
A study of the impact of legislation and public policies on the well being of the family. Emphasis on the involvement of individuals and families with policies and legal resources as a means for realizing satisfactory life styles. Prereq: FAM 252.
FAM 624 PERSPECTIVES ON HUMAN SEXUALITY. (3)
An examination and study of historical and current perspectives of sexuality as it relates to behavioral patterns, cultural attitudes, social policy and practice. Prereq: Knowledge of human behavior and personality theory highly recommended. (Same as SW 624.)

FAM 652 READINGS IN FAMILY THEORY AND RESEARCH. (3)
Enter level course for graduate work in the study of the family with a focus on family theory and research. Conceptual frameworks and theoretical approaches to the study of the family together with extensive reading of relevant supporting research are covered. Critical evaluation of macro theories and micro theories of the middle range and historical perspective on the development and evolution of family theory are emphasized. Prereq: Six hours in family-related social or behavioral sciences or consent of instructor.

FAM 654 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR. (3)
A survey of human development across the life span of the individual from conception to death. Content includes changes in motor skills, biological growth and decline, learning behavior, language, social, emotional, moral, and intellectual development as well as the roles of the family, the school, peers, and work in relation to individual development. Critical evaluation of current theories which describe human development. (Same as EDP 600.)

FAM 655 THEORY AND DYNAMICS OF HUMAN DEVELOPMENT. (3)
Advanced study of theory and research relating to the processes and outcomes of human development throughout the life cycle. Prereq: An advanced undergraduate course in child or human development or consent of instructor.

FAM 656 ADULT DEVELOPMENT AND AGING IN THE FAMILY. (3)
Individual development during adulthood including the aged. Particular emphasis is placed on the impact of marital, familial, parenting and grandparenting careers on individual development in other areas. Theories relating to role negotiation, identity, and the family life cycle are also considered. Prereq: One course in human development.

FAM 657 FAMILY SYSTEMS THEORY. (3)
An investigation into the evolution and development of family systems theory, beginning with general systems theory and extending into the current applications to family studies. Emphasis is upon evaluation of the theory and its derivatives together with relevant research pertaining to the theory. Prereq: Six hours in family-related social or behavioral sciences or consent of instructor.

FAM 658 ADOLESCENT DEVELOPMENT. (3)
A survey of theory and research in adolescent development with particular emphasis on the role of families and implications for working with adolescents. Prereq: Six hours in social or behavioral science.

FAM 659 ADVANCED CHILD DEVELOPMENT. (3)
Advanced survey of theoretically and professionally important topics in child development. Particular attention to current theory and research in social, affective, cognitive and language domains; familial/cultural influences; the interdisciplinary nature of the knowledge base; and issues concerning the application of child development knowledge to professional work with children. Prereq: Six hours in social or behavioral sciences or family studies, including one course in child or human development, or consent of the instructor.

FAM 660 AGING AND FAMILY VALUES. (3)
The study of dynamics of family interactions and issues when some family members are elderly. Emphasis is placed on perspectives from multiple generations and across various kin categories.

†FAM 662 SOCIAL AND ECONOMIC DECISION MAKING IN THE FAMILY. (3)
Study of the contributors to and the recipients of family resources. Emphasis on the methods of assisting families to better allocate family resources through understanding money beliefs and attitudes and practicing financial planning strategies.

FAM 665 PROFESSIONAL ISSUES IN MARRIAGE AND FAMILY INTERVENTION. (3)
Exploration and definition of the legal, ethical, and professional issues in the practice of marriage and family intervention. Emphasis will be on developing professional skills, attitudes, and identity for marriage and family intervention. Prereq: FAM 657 and 686 or consent of instructor.

FAM 666 THEORY AND METHODS IN MARRIAGE AND FAMILY THERAPY. (3)
A survey of theories and methods used in marriage and family therapy. Designed to provide students with a knowledge of the theoretical bases for marriage and family therapy, including an introduction to procedures used to assess, diagnose and treat marriage and family dysfunctions. Prereq: FAM 657 or consent of instructor.

FAM 667 TREATMENT MODALITIES IN MARRIAGE AND FAMILY THERAPY. (3)
The primary systemic modalities in marriage and family therapy are presented both in theory and in case study analysis. The presenting problem, history of the problem, family history, identification of dysfunctional dynamics, goals, plan of treatment, and outcome/evaluation are emphasized in each modality. Procedures of assessment, diagnosis, and intervention specifically applicable to each modality are emphasized together with techniques common to both systemic and nonsystemic modalities. Research relevant to outcome/evaluation of each modality is also emphasized. Students are expected to observe marriage and family therapy and to serve as beginning level co-therapists with more advanced students under faculty supervision. Prereq: FAM 657, 686 and admission to the graduate program in Family Studies.

FAM 668 FAMILIES IN CRISIS: INTERVENTION STRATEGIES. (3)
An examination of nonnormative, crisis events experienced by families and appropriate clinical interventions. Both transitional and situational crisis events will be explored along with typical family dynamics. Emphasis will be placed on intervention strategies for clinicians. Prereq: FAM 501 or consent of instructor.

FAM 669 PERSPECTIVES ON DIVORCE AND REMARRIAGE. (3)
Examination of research, theory and intervention strategies for family experiences: divorce, single-parenting, and remarriage. Focus on family dynamics and child outcomes during these normative family changes. Prereq: Six graduate credits in human development, family relations or equivalent; consent of instructor.

FAM 690 FAMILIAL AND DEVELOPMENTAL RESEARCH METHODS. (3)
The study of research techniques and methodological problems involved in home economics research on the family. Emphasis is placed on research concerning interrelations between the family and its environment, development within the family, and family dynamics. Prereq: Consent of instructor.

FAM 693 FAMILY SYSTEMS APPROACH TO SEXUAL PROBLEMS IN MARRIAGE AND FAMILY THERAPY. (3)
Study of sexual problems in the context of marriage and family therapy. A family systems perspective will be used to understand and work with couples and families who present with sexual problems in marriage and family therapy. Prereq: FAM 686.

FAM 699 FIELD EXPERIENCES IN FAMILY STUDIES. (1-3)
Field training in a community setting related to family science for graduate students. Opportunities for developing competencies in planning and conducting programming in human development, family relations, early childhood education, and family resource management. Student will work under the supervision of a faculty and a training site supervisor. May be repeated to a maximum of six credits. Laboratory, three to nine hours per week. Open to HEIE, HEFD, HEFE, and HEEC majors only with prior consent of instructor.

FAM 710 CURRENT TRENDS IN EARLY CHILDHOOD EDUCATION AND CARE. (3)
A study of major trends and issues in early childhood education and care. Several contemporary early childhood trends will be examined and analyzed in terms of appropriateness for specific populations. Prereq: FAM 659 or consent of instructor.

FAM 748 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

FAM 752 SEMINAR IN FAMILY THEORY CONSTRUCTION. (3)
An advanced seminar focusing on the definition, evaluation and construction of family theory. Inductive and deductive theory construction strategies are surveyed, evaluated and applied. Prereq: FAM 652. (Same as SOC 752.)

FAM 759 SPECIAL ADVANCED TOPICS IN FAMILY STUDIES. (1-3)
Intensive study of advanced topics and problems from family studies or subfields: marriage and family counseling, individual development within the family, early childhood education, and family economics and management. Consideration of current issues and theories, research literature, and research methods. May be repeated under different subtitles to a maximum of six credits. Prereq: Consent of instructor.
FAM 768 RESIDENCE CREDIT
FOR THE MASTER'S DEGREE. (1-6)
May be repeated to a maximum of 12 hours.

FAM 773 SEMINAR IN FAMILY ECONOMICS AND MANAGEMENT. (3)
Preparation and presentation of reports of current investigations in family economics and management. May be repeated to a maximum of six credits. Prereq: Graduate standing and consent of instructor.

FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY STUDIES. (1-3)
Preparation and presentation of reports of current investigations in human development and family relations. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

FAM 776 PROSEMINAR IN MARRIAGE AND FAMILY THERAPY: (Subtitle required). (1-3)
Intensive study of skills, issues, or treatment procedures in marriage and family therapy. May be repeated under different subtitles to a maximum of six credits. Prereq: Permit will be required.

FAM 785 ADVANCED PROBLEMS IN INDIVIDUAL AND FAMILY DEVELOPMENT. (1-3)
Independent advanced work. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

FAM 786 ADVANCED PROBLEMS IN FAMILY ECONOMICS AND MANAGEMENT. (1-3)
Independent advanced work in family economics and management. May be repeated to a maximum of six credits. Prereq: Graduate standing and consent of department chairperson.

FAM 787 SUPERVISED EXPERIENCE IN THE PRACTICE OF MARRIAGE AND FAMILY THERAPY. (1-6)
Supervised experience in the practice of marriage and family therapy. Students are required to spend one hour per week in lecture and one hour per week in individual supervision and three hours per week in group discussion of professional issues in conjunction with case management and administration. A minimum of eight hours of client contact per week is expected. May be repeated to a maximum of 18 credits. Prereq: Consent of supervising faculty committee required.

FIN 300 CORPORATION FINANCE. (3)
An introduction to the basic principles, concepts, and analytical tools in finance. Includes an examination of the sources and uses of funds, budgeting, present value concepts and their role in the investment financing and dividend decision of the corporate enterprise. Prereq: ECO 202, ACC 202.

FIN 350 FUNDAMENTALS OF INVESTING. (3)
Investigation of various investment opportunities. Primary emphasis on financial assets such as stock, bonds, options, and futures contracts. Also considers real estate, insurance, and similar alternatives. Operation of financial markets; security analysis and valuation models, forecasting. Efficient markets: random walk vs. technical analysis. Description of portfolio management.

FIN 360 PRINCIPLES OF REAL ESTATE. (3)
An overview of the basic concepts and principles of real estate in the private and public sectors. The course provides an introduction to real estate issues and a foundation for further study in the various specialized areas of real estate and urban development. Prereq: A grade of C or better in FIN 300 or consent of instructor.

#FIN 390 SPECIAL TOPICS IN FINANCE
(Subtitle required). (3)
Readings, projects, lecture and/or discussion to illuminate current topics of special interest or concern in finance. May be repeated to a maximum of six credits. May not be repeated under the same title. A particular topic may be offered at most three times under the FIN 390 number. Prereq: Consent of instructor.

FIN 395 INDIVIDUAL WORK IN FINANCE. (1-6)
Students confer individually with the instructor. Written paper usually expected and filed in chairperson’s office. May be repeated to a maximum of six credits. Prereq: GPA of 3.0 in major, approval of instructor and chairperson.

FIN 410 ANALYSIS OF FINANCIAL INFORMATION. (3)
Begins with review of the informational inputs to financial decision-making, including financial statements and other economic data. Some emphasis is placed on the interpretation of “noncomparable” data across firms, and the application of popular analytic techniques. Studies evaluating the usefulness of financial data will also be reviewed. Prereq: ECO 391, ACC 301 and a grade of C or better in FIN 300.

FIN 423 INTERNATIONAL FINANCE. (3)
The course provides an overview of world trade, international monetary and trade theory, and the theory of exchange rate determination. Focus is on the management of short- and long-term international assets, with particular attention given to the direct investment decision and on financing international operations. Prereq: A grade of C or better in FIN 300.

FIN 445 CAPITAL INVESTMENT AND FINANCING DECISIONS. (3)
Primary emphasis on the application of financial concepts and tools of analysis. Case analysis is used to simulate "real world" environment. Topics include capital budgeting, financing decisions, cost of capital, leasing, dividend policy, and mergers and acquisitions. Prereq: A grade of C or better in FIN 300.

FIN 447 WORKING CAPITAL MANAGEMENT. (3)
Primary emphasis is placed on the study of short-term financial management policies. Course topics include cash management, marketable security investment, credit and inventory policies, as well as alternative sources of short-term funding. Some casework is involved. Prereq: A grade of C or better in FIN 300.

FIN 450 INVESTMENT ANALYSIS. (3)
Analysis of corporation statements for investment purposes; the security market; market influences on security prices; effect of interest changes on security prices; and the development of investment programs. Prereq: ACC 301 or FIN 410; ECO 391; and grades of C or better in FIN 300 and 350.

FIN 452 OPTIONS AND FUTURES. (3)
A study of the options and futures markets including institutional aspects, pricing, and regulation. Primary emphasis will be on the uses and applications of options and financial futures. Prereq: FIN 300 (grade of C or better); ECO 391, ECO 485G, and a course in derivatives. Prereq: Grades of C or better in FIN 300.

FIN 464 REAL ESTATE FINANCE. (3)
The course surveys the sources and uses of real estate funds. The institutions which provide funds and the various types of financial instruments are described and compared. Likewise, various forms of real estate investment are analyzed and methods of determining value are critiqued. Prereq: A grade of C or better in FIN 300.

FIN 480 MONEY AND CAPITAL MARKETS. (3)
A study of the institutional structure and theory of the money and capital markets, including the types of financial claims traded in such markets, the major buyers and sellers, the regulatory environment, capital market theory, and the forces of supply and demand affecting the level and structure of interest rates. Prereq: ECO 485G, a grade of C or better in FIN 300 or consent of instructor.

FIN 585 BANK MANAGEMENT. (3)
A study of the principles and cases in commercial banking practice. Bank management practices are studied within the economic, monetary, fiscal and legal framework of the American economy. Prereq: ECO 485G, a grade of C or better in FIN 300, or consent of instructor.

FIN 600 CORPORATE FINANCIAL POLICY. (3)
A study of financial management from the viewpoint of the corporate financial officer. Areas studied include capital budgeting, capital structure, financing decisions, working capital management, dividend policy, and mergers and acquisitions. Prereq: Graduate standing: ECO 610, ACC 628, MGT 650.

FIN 623 INTERNATIONAL FINANCIAL MANAGEMENT. (3)
This course provides an overview of financial management at the international level. Topics covered include: The nature and uses of international financial markets, the financial behavior of multinational corporations, exchange rates, and hedging in international business. Prereq: FIN 600 and consent of the instructor.

FIN 637 HEALTH FINANCE. (3)
This course applies general principles of finance to the financial management of health care institutions. The major financial incentives which dictate how health care is delivered are studied and proposals to change these incentives are explored. Prereq: MHA/MPA program status and HA 601, HA 621, PA 623, HA 635. (Same as HA/ HSM/MPA 637.)
FIN 645 CORPORATE INVESTMENT AND FINANCING POLICY. (3)
Emphasizing both theory and practice, this course is an in-depth study of long-term corporate investment and financing decisions. Topics include valuation, capital budgeting, cost of capital, leasing, dividend policy, capital structure, and mergers and acquisitions. Prereq: FIN 600.

FIN 647 WORKING CAPITAL POLICY. (3)
A study of short-term financial policies primarily from the corporate financial officer’s viewpoint. Areas studied include working capital management, liquidity policy, banking relations, investment in money market instruments and financial statement forecasting. Prereq: FIN 600.

FIN 650 INVESTMENTS. (3)
Analysis and valuation of securities and the effects on investment decisions. Prereq: Appropriate undergraduate courses in accounting and finance.

FIN 656 PORTFOLIO MANAGEMENT. (3)
A study of the advanced analytical processes involved in portfolio selection and management. Topics include alternative models for allocating resources among risky alternatives and evaluation of performance. Prereq: FIN 600 and FIN 650 or consent of the instructor.

FIN 664 REAL ESTATE FINANCE. (3)
A basic orientation in commonly used instruments, institutional structures, and real estate financing policies. Emphasis will be placed on mortgage instruments, mortgage types, effective cost of borrowing, construction lending, financial institutions, loan underwriting, and the secondary mortgage market. Analysis is primarily from the debt investor’s perspective. Prereq: FIN 600 and consent of instructor.

FIN 680 MONEY, INTEREST AND CAPITAL. (3)
A study of the theory of money, interest and financial intermediation. In addition to the theory, the major financial markets, financial institutions and financial instruments will be examined. Finally, the governmental agencies which regulate the industry will be discussed as will the overlapping nature of the regulatory process. Prereq: Completion of the first year MBA core or consent of instructor.

FIN 691 ADVANCED TOPICS IN FINANCE (Subtitle required). (1-3)
The study of selected topics in finance for graduate students. Special title required. May be repeated to a maximum of nine credits under different subtitles. Prereq: Consent of instructor.

FIN 695 INDIVIDUAL WORK IN FINANCE. (1-6)
Students confer individually with the instructor. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

FIN 700 SEMINAR IN FINANCIAL THEORY. (3)
Primary emphasis on the theory of financial asset valuation. Topics include utility theory, investor reaction to uncertainty, cost of capital theory, dividend theory, portfolio theory, and asset pricing in equilibrium. Prereq: FIN 600 and FIN 650.

FIN 701 SEMINAR IN FINANCIAL THEORY II. (3)
A continuation of FIN 700. Topics covered include state-preference theory, arbitrage pricing theory, agency theory, and the pricing of contingent claims. Prereq: FIN 700 and consent of instructor.

FIN 745 SEMINAR IN MANAGERIAL FINANCE. (3)
Primary emphasis on the implementation of financial theory for the management of the assets of a business firm. Topics include capital budgeting, working capital planning, financing the firm, cost of capital and the financial structure of the firm, and mergers and acquisitions. Prereq: FIN 700.

FIN 750 SEMINAR IN INVESTMENT THEORY. (3)
Primary emphasis on the implementation of financial theory for the evaluation and management of financial assets in an efficient capital market. Topics include mean-variance efficiency, development and testing of the capital asset pricing model, stochastic dominance, and option pricing theory as well as other topics in modern capital market theory. Prereq: FIN 700 or equivalent, or consent of instructor.

FIN 763 RESEARCH, DESIGN AND ANALYSIS. (3)
This course deals with the design and analysis of business research. Emphasizes the practical application of analysis of variance and correlational techniques to problems in business research. Focus will be on design, implementation, and interpretation of research. Prereq: MGT/MKT/FIN 762. (Same as MGT/MKT 763.)

FIN 780 SEMINAR IN FINANCIAL INSTITUTIONS. (3)
An examination of the role of financial institutions in the financial system and in the economy, with special emphasis on commercial banks. Topics covered include: theories of financial intermediation, asset-liability management, regulation and deposit insurance, structure of the financial institutions industry, and empirical models of banking. Prereq: FIN 700.

FIN 791 SEMINAR IN FINANCE (Subtitle required). (1-3)
An intensive study of current theory and research in a topic in finance as discussed in scholarly journals. Examples of possible topics include: Capital structure, agency theory, market efficiency, contingent claims. May be repeated with a different subtitle for a maximum of 12 credits. Prereq: Consent of the instructor.

FIN 795 INDEPENDENT WORK IN FINANCE. (1-6)
Designed for advanced students who undertake research problems to be conducted in regular consultation with the instructor. May be repeated to a total of six credit hours. Prereq: Consent of instructor.

FOR

Forestry

FOR 100 INTRODUCTION TO FORESTRY. (3)
A brief coverage of the general fields of forestry; development and importance; tree growth; principal forest regions and important timber species; forest management practices; utilization and products; state and federal forestry programs.

FOR 101 INTRODUCTION TO WILDLIFE CONSERVATION. (3)
An introduction to the history, concepts, and principles of wildlife biology and management. The role of wildlife in ecological systems and human-altered environments will be discussed. Lecture, two hours; laboratory, two hours per week.

FOR 200 MAP READING AND PHOTOGRAMMETRY. (2)
Use of topographic maps and aerial photos to determine distances, heights, directions, and areas. Location of ground features on maps and photos and of map and photo features on the ground. Laboratory, four hours per week. Prereq MA 109 and MA 112 or high school equivalents.

FOR 205 FOREST AND WILDLAND SOILS AND LANDSCAPES. (4)
A study of soil-plant-landscape relationships as related to forestry and the management of natural ecosystems. Emphasis will be on properties and processes of wildland soils, and on interrelationships between soils; composition and productivity of plant communities; and the structure, form, and functioning of landscapes. Lecture, three hours; laboratory, three hours per week. Prereq: At least three credits of biology and three credits of chemistry.

FOR 219 SILVICS AND TREE IDENTIFICATION. (3)
Silvics, taxonomy, and preparation of woody plants native to the U.S. Lecture, two hours per week; laboratory, three hours per week, with field trips to local forests. Prereq: One semester of botany.

FOR 221 WINTER DENDROLOGY. (1)
Identification of 100 species of trees, shrubs, and lianas based upon bark, form, twig, and bud characteristics. Laboratory; four hours per week for one-half semester. Prereq: FOR 219.

FOR 300 FOREST MEASUREMENTS. (4)
Basic forest surveying; units of measure and their application in determining volume in forest stands and products; statistical techniques and photogrammetry in volume estimate; site classification and growth determinations; continuous forest inventory and data processing techniques. Lecture, three hours; laboratory, two hours. Prereq: MA 123 and STA 291.

FOR 315 CONSERVATION BIOLOGY. (3)
This course is a multidisciplinary science designed to deal with the global crisis confronting natural biological systems. This course will review the scientific evidence demonstrating loss of biological diversity across all taxonomic groups. Various strategies for conserving biological diversity will be presented, including single-species, ecosystem, and landscape level approaches. Emphasis will be placed on strategies for managing small populations. Additional topics to be addressed include habitat fragmentation, restoration ecology, and sustainable development. Prereq: BIO 150 and 152 or consent of the instructor.
FOR 325 ECONOMIC BOTANY. (3) The principles of sustained yield timber management, organization of the forest area, management objectives, timber valuation, regulation of the cut, and timber management plans. Lecture, three hours; laboratory, two hours. Prereq: MA 162, FOR 201, and Summer Camp (FOR 375, 376, 377, 378, and 379), or consent of instructor.

FOR 340 FOREST ECOCY. (3) The study of the forest as a biological community with emphasis on the interrelationships between trees and other organisms comprising the community, and the interrelationships between these organisms and the physical environment. Lecture, two hours; laboratory, three hours per week. Prereq: FOR 205 and FOR 219, or consent of instructor.

FOR 350 SILVICULTURE. (4) Principles and techniques of intermediate cutting, natural and artificial regeneration, systems of reproduction, application of genetics and tree improvement to intensive forest management, and silviculture of some of the major forest types of the United States. Lecture, three hours; laboratory, two hours with occasional extended field trips. Prereq: FOR 205, FOR 219, FOR 340, or consent of instructor.

FOR 360 WOOD TECHNOLOGY AND UTILIZATION. (4) General anatomy of wood and study of its properties. Identification of major species based on microscopic and macroscopic features. Sources, processing, and utilization of wood products. Lecture, three hours; laboratory, two hours per week. Prereq: BIO 106 and 107, PHY 151, or consent of instructor.

FOR 375 TAXONOMY OF FOREST VEGETATION. (1) Field study of the identification and silvics of forest vegetation. One week summer field course. Prereq: FOR 205, FOR 219, and FOR 340; grade of C or better required in FOR 205 and FOR 219.

FOR 376 SILVICULTURAL PRACTICES. (2) Field study of the relationship between specific site characteristics and yield of forest stands and the application of cultural practices to forest stands. Two week summer field course. Prereq: FOR 205, FOR 219; FOR 340, and FOR 355; grade of C or better required in FOR 205 and FOR 219.

FOR 377 FOREST SURVEYING. (1) The application of surveying principles and techniques to forest land areas. One week summer field course. Prereq: FOR 200 and FOR 300; grade of C or better required in FOR 200.

FOR 378 FOREST MENSURATION. (2) The application of mensurational principles and techniques in determining tree and stand volumes and growth; timber cruising; development of volume and stand tables. Two week summer field course. Prereq: FOR 200 and FOR 300; grade of C or better required in FOR 200.

FOR 379 HARVEST AND UTILIZATION OF WOOD. (2) Study and use of harvesting and milling equipment in the harvest and manufacture of wood and wood products. Two week summer field course. Prereq: FOR 360.

FOR 399 FIELD-BASED EDUCATION IN FORESTRY. (1-6) The use of field experience as an educational complement to classroom work. May be repeated to a maximum of 12 credits which are to be used as electives. Prereq: Permission of instructor and department chairperson. A departmental learning agreement must be completed prior to registration.

FOR 402 FOREST ENTOMOLOGY. (3) The principles of forest entomology, including the detection, collection, identification, appraisal of damage, and control of forest insect pests. Lecture, two hours; laboratory, two hours. Prereq: One year of biology or consent of instructor. (Same as ENT 402.)

FOR 410 FOREST PATHOLOGY. (3) Symptomatology, epidemiology, host-pathogen relations and control of selected diseases of forest trees. Lecture, two hours; laboratory, two hours. Prereq: BIO 106 and 107 or BIO 351 or one equivalent semester of botany. (Same as PPA 410.)

FOR 425 TIMBER MANAGEMENT. (4) The principles of sustained yield timber management, organization of the forest area, management objectives, timber valuation, regulation of the cut, and timber management plans. Lecture, three hours; laboratory, two hours. Prereq: MA 162, FOR 201, and Summer Camp (FOR 375, 376, 377, 378, and 379), or consent of instructor. (Same as AEC 425.)

FOR 430 FOREST WILDLIFE MANAGEMENT. (3) The principles and practices of wildlife ecology and management with emphasis on the forest environment. Lecture, two hours; laboratory, two hours with occasional extended field trips. Prereq: Summer Camp (FOR 375, 376, 377, 378, and 379) or consent of instructor.

FOR 440 FOREST RESOURCES FOR RECREATION. (3) Study of resource-oriented recreation in the forest. The recreational development of forest lands and waters and basic forest land management policies and principles related thereto. Lecture, two hours; laboratory, two hours with occasional extended field trips. Prereq: Summer Camp (FOR 375, 376, 377, 378, and 379) or consent of instructor.

FOR 460G FOREST WATERSHED MANAGEMENT. (3) Principles and techniques involved in forest watershed management as related to the water resource. The influence of forestry practices on water movement into and through the watershed; water storage; water loss, vegetation and water yields; water quality. All-day field trip required. Prereq: Summer Camp (FOR 375, 376, 377, 378, and 379), or consent of instructor.

FOR 461 INTRODUCTION TO POPULATION GENETICS. (2) This survey course examines the population dynamics and equilibria of genes in nuclei, chloroplasts and mitochondria. Emphasis will be on biological relevance (in plants, animals, and micro-organisms), but some theoretical derivations will also be introduced. Prereq: AGR 360 (or equivalent) and one course in probability/statistics. (Same as ABT/BIO/ENT 461.)

FOR 480 INTEGRATED FOREST RESOURCE MANAGEMENT. (5) This is the capstone course in the forestry curriculum. Students will be presented with a real life management scenario in a forested location in Kentucky. They will be required to collect data, determine management objectives, and develop action plans for managing the forest according to the desires of the owner and subject to realistic legal, economic, and social constraints. Students will be required to present their management plans at the end of the semester to the faculty of the Department of Forestry. Lecture, three hours; laboratory, four hours per week. Prereq: FOR 425, FOR 430, FOR 440, and FOR 460G.

FOR 564 FOREST SOILS. (5) The physical, chemical and biological properties of soils as they relate to forest tree growth and the forest community. A study of the genesis, morphology, classification and utilization of soils for forestry. Lecture, two hours; laboratory, two hours with occasional extended field trips. Prereq: PLS 366 and AGR 367 and consent of instructor. (Same as PLS 564.)

FOR 599 INDEPENDENT WORK IN FORESTRY. (1-3) Study and independent work on selected problems related to allocation and utilization of natural resources. May be repeated to a maximum of six credits. Any combination of FOR 599 and FOR 783 cannot exceed six credits. Prereq: Senior or graduate standing and consent of instructor.

#FOR 601 RESEARCH METHODS IN FORESTRY. (3) A study of research methods, procedures, and techniques used in forestry. Major emphasis will be placed on problem analysis and methods of conducting organized research. Prereq: Graduate standing.

#FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE. (3) An advanced course that examines world and transboundary issues related to renewable natural resources. Students will identify issues for study and present research papers in a seminar format related to those issues. A class project will focus on a single issue for researching in depth. Prereq: Graduate standing.

*FOR 605 EMPIRICAL METHODS IN ECOLOGY AND EVOLUTION. (2) This course provides students with hands-on experience in a diverse array of modern research methods used by ecologists and evolutionary biologists, including techniques used in: molecular genetics, chemical ecology, behavioral studies, motion analyses, using high-speed video, image analyses for morphometrics and color, and field techniques in both aquatic and terrestrial systems. Lecture, one hour; laboratory, three hours per week. Prereq: BIO 325 or FOR 340 or ENT 665, or consent of instructor. (Same as BIO/ENT 605.)

*FOR 606 CONCEPTUAL METHODS IN ECOLOGY AND EVOLUTION. (2) This course provides students with hands-on experience in a diverse array of conceptual research methods used by ecologists and evolutionary biologists. The focus will be on optimization methods used for predicting animal and plant behaviors and life histories, and on methods for assessing population trends and dynamics. Mathematical techniques used will include graphical analyses, matrix algebra, calculus, and computer simulations. Prereq: One year of calculus and BIO 325 or FOR 340 or ENT 665, or consent of instructor. (Same as BIO/ENT 606.)
FOR 607 ADVANCED EVOLUTION. (2)
This course covers advanced topics in evolution, concentrating on questions central to the understanding of general evolutionary processes. Phenomena occurring both within populations (e.g., selection, inheritance, population subdivision) and between populations (e.g., gene flow, competition) will be addressed. Special attention will be given to modern research approaches and techniques including quantitative genetics, measurement of selection, phylogenetic analyses of comparative data, and molecular systematics. Prereq: One year of calculus, genetics (BIO 304 or BIO 461) and BIO 508 or consent of instructor. (Same as BIO/ENT 607.)

FOR 608 BEHAVIORAL ECOLOGY AND LIFE HISTORIES. (2)
This course uses an evolutionary approach to examine behavior and life histories. Topics addressed include: the optimality approach, constraints on optimality, kin and group selection, predator and prey behaviors, social and mating behaviors, and life history evolution. Prereq: BIO 325 and one semester of calculus; or consent of instructor. (Same as BIO/ENT 608.)

FOR 609 POPULATION AND COMMUNITY ECOLOGY. (2)
This course discusses the processes that determine population distributions and dynamics and community structure for both plants and animals. Topics addressed include: population regulation and population stability, community diversity and stability, ecological succession, population interactions (competition, predation, mutualism), coevolution, and the effects of spatial and temporal heterogeneity on population and community patterns. Prereq: BIO 325 or FOR 340 or consent of instructor. (Same as BIO/ENT 609.)

FOR 612 FOREST ECOSYSTEM ANALYSIS. (3)
The study of ecosystem structure and function with emphasis upon eastern deciduous forest ecosystems. Topics discussed will include energy flow, nutrient cycling, the influence of disturbance upon ecosystem properties and dynamic processes in the development of ecosystems. Prereq: FOR 340 or BIO 451G and consent of instructor.

FOR 620 SPECIAL TOPICS IN FORESTRY
Subtitle required. (1-3)
Special topical or experimental courses in forestry for advanced graduate students. Special title required and must be approved by the chairperson of the Department of Forestry. May be repeated to a maximum of nine credits. Students may not repeat under the same subtitle. Prereq: Consent of instructor.

FOR 622 PHYSIOLOGY OF PLANTS I. (3)
A physiological/biochemical treatment of central topics in modern plant physiology. Topics will include: plant-cell biology, ion transport, water and translocation, respiration and photosynthesis. Prereq: BIO 430G or equivalent or consent of coordinator. Prereq or concur: BCH 501. (Same as BIO/PLS 622.)

FOR 623 PHYSIOLOGY OF PLANTS II. (3)
A physiological/biochemical treatment of central topics in modern plant physiology. Topics will include: plant hormones, an introduction to plant biotechnology, senescence and abscission, stress physiology, phytochrome-photomorphogenesis-phototropism nitrogen and sulfur metabolism. Prereq: BIO 430G or equivalent, and BCH 501 or consent of coordinator. (Same as BIO/PLS 623.)

FOR 630 WILDLIFE HABITAT ANALYSIS. (3)
The components and structure of wildlife habitats and associated wildlife communities. Univariate and multivariate statistical methods of habitat analysis will be described and applied to data collected during laboratory periods to identify important habitat characteristics for selected wildlife species. The importance of habitat complexity will be demonstrated in laboratory and field situations. Lecture, three hours; laboratory, two hours. Prereq: FOR 430 and basic courses in statistics and ecology.

FOR 662 QUANTITATIVE METHODS IN RENEWABLE RESOURCE MANAGEMENT. (3)
Design and analysis of optimization models in renewable resource management. Includes survey of applications in mathematical programming, CPM-PERT, Markov processes and Game theory. Case examples are used to demonstrate applicability and problem formulation in management of industrial and public forests. Prereq: MA 113 and MA 162 or equivalent, and AEC 445G or equivalent. (Same as AEC 662.)

FOR 663 SPECIAL ANALYSIS IN NATURAL RESOURCES. (4)
The application of spatial theory to natural resource management problems. Course topics include functions and uses of GIS, spatial theory and its application through GIS to resource management problems, linking aspatial and spatial databases, sources of spatial data, collecting and preparing spatial data for analysis, and spatial data confidence levels and spatial statistics. Lecture, three hours; laboratory, two hours per week. Prereq: Graduate standing, STA 570 (or concurrent enrollment), or permission of instructor.

FOR 748 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

FOR 768 RESIDENCE CREDIT FOR MASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours. Prereq: Consent of adviser and chairperson of the department.

FOR 770 FORESTRY SEMINAR (Subtitle required). (1)
Reports and discussions on recent research and current literature. Credit is given to those who satisfactorily present papers. Required of all graduate students. Can be repeated to a maximum of three credits. Prereq: Graduate standing.

FOR 781 SPECIAL PROBLEMS IN FORESTRY. (1-3)
Advanced study of selected problem areas in forestry. May be repeated for a total of six credits; any combination of FOR 781 and FOR 791 cannot exceed six credits. Prereq: Consent of graduate adviser.

FOR 791 RESEARCH IN FORESTRY. (1-3)
Involves original research in selected areas of interest in forestry. May be repeated for a total of six credits; any combination of FOR 781 and FOR 791 cannot exceed six credits. Prereq: Consent of graduate adviser.

FP Family Practice

FP 825 SECOND-YEAR ELECTIVE, FAMILY PRACTICE. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Family Practice. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser.

FP 841 FAMILY PRACTICE OFF-SITE PRECEPTORSHIP. (1-6)
A senior selective in remote sites designed to acquaint the student with the functions, techniques, and experiences associated with a family physician. Students will function in an office-based practice of family physicians, will live in the community and practice primary health care delivery. One credit per week, not to exceed six weeks. Prereq: Admission to the fourth year, College of Medicine.

FP 850-859 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

Approved electives:
FP 850 ACTING INTERNSHIP IN FAMILY PRACTICE
FP 852 ELECTIVE IN FAMILY PRACTICE

FR French Language and Literature

FR 011 FRENCH FOR READING KNOWLEDGE. (3)
This course is designed to meet the needs of upper division and graduate students who are preparing for the graduate reading examination.

FR 101 ELEMENTARY FRENCH. (4)
The study of basic French through grammar, reading and oral practice.

FR 102 ELEMENTARY FRENCH. (4)

FR 106 ELEMENTARY FRENCH REVIEW. (5)
A course equivalent in level to FR 102 designed to prepare students with two or three units of high school French for French 201 who, on the basis of the placement test, appear to lack sufficient skill in French for that course. Prereq: Two years of high school French and the placement test.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>FR 201</td>
<td>INTERMEDIATE FRENCH</td>
<td>(3)</td>
<td>Reading, conversation and oral comprehension are the basic aims of this course, which is structured around contemporary texts. Prereq: FR 102 or two years of high school French and placement test.</td>
</tr>
<tr>
<td>FR 202</td>
<td>INTERMEDIATE FRENCH</td>
<td>(3)</td>
<td>A continuation of FR 201. Prereq: FR 201 or three years of high school French and placement test.</td>
</tr>
<tr>
<td>FR 203</td>
<td>ELEMENTARY FRENCH CONVERSATION AND COMPOSITION</td>
<td>(3)</td>
<td>This course will develop conversational skill and introduce writing. Premajor requirement for the French major. Prereq or concord: FR 202.</td>
</tr>
<tr>
<td>FR 204</td>
<td>FRENCH CULTURE: READINGS AND CONVERSATION</td>
<td>(3)</td>
<td>To enhance reading proficiency and comprehension through exposure to a variety of cultural texts and to apply reading skills to expression in conversation and writing. Premajor requirement for the French major. Prereq: FR 202.</td>
</tr>
<tr>
<td>FR 261</td>
<td>MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION</td>
<td>(3)</td>
<td>A study of major literary texts (in English translation) from the seventeenth century to the present day. Special emphasis is given to the role of literature as an expression of French and Francophone culture. No knowledge of French is required.</td>
</tr>
<tr>
<td>FR 263</td>
<td>AFRICAN AND CARIBBEAN LITERATURE AND CULTURE OF FRENCH EXPRESSION IN TRANSLATION (Subtitle required)</td>
<td>(3)</td>
<td>This course treats major cultural questions concerning the exchange between Africa and the Caribbean in terms of historical, sociological, political, and literary events. No knowledge of French is required. (Same as AAS 263.)</td>
</tr>
<tr>
<td>FR 300</td>
<td>ORAL PRACTICE IN FRENCH (Subtitle required)</td>
<td>(1)</td>
<td>Oral-aural practice in the spoken language. Emphasis in the expansion of conversational vocabulary. Designed to increase oral fluency in French. May be repeated to a maximum of three credits. May not be repeated under the same subtitle. Not open to students who are taking or who have taken FR 312 or FR 412. Prereq: FR 202 and FR 203 or equivalent.</td>
</tr>
<tr>
<td>FR 304</td>
<td>INTRODUCTION TO FRENCH LITERATURE I</td>
<td>(3)</td>
<td>A study of literary texts from the period before 1800 with emphasis on literary analysis and critical approaches. Lecture, discussion, reports. Prereq: FR 204.</td>
</tr>
<tr>
<td>FR 305</td>
<td>INTRODUCTION TO FRENCH LITERATURE II</td>
<td>(3)</td>
<td>A study of literary texts from the 19th and 20th centuries with emphasis on literary analysis and critical approaches. Lecture, discussion, reports. Prereq: FR 204.</td>
</tr>
<tr>
<td>FR 306</td>
<td>INTERMEDIATE FRENCH COMPOSITION</td>
<td>(3)</td>
<td>Intermediate grammar review and theme writing. Vocabulary expansion and practice in writing stylistically appropriate French. Prereq: FR 204 or equivalent.</td>
</tr>
<tr>
<td>FR 307</td>
<td>FRENCH FOR BUSINESS AND ECONOMICS</td>
<td>(3)</td>
<td>Development of specialized conversational and written proficiency necessary to import-export business activities, banking, insurance, business regulation, etc., in the French-speaking world. Prereq: FR 306.</td>
</tr>
<tr>
<td>FR 310</td>
<td>FRENCH PHONETICS</td>
<td>(3)</td>
<td>Phonetics and phonemics, theory and practice. Advanced corrective pronunciation drill on an individual basis. Prereq: FR 204.</td>
</tr>
<tr>
<td>FR 312</td>
<td>FRENCH CONVERSATION I</td>
<td>(3)</td>
<td>Intensive practice in oral French, emphasizing idiomatic speech. Designed to maintain oral fluency in French. Prereq: FR 204 or equivalent.</td>
</tr>
<tr>
<td>FR 350</td>
<td>CULTURAL PROFILES OF FRANCE</td>
<td>(3)</td>
<td>This course explores selected figures, movements, trends, and issues in the cultural history of France in relation to the major political, economic, educational, and cultural institutions of France such as the monarchy, the Republic, the Church, the university, religious and secular schooling, architecture, music, and the plastic arts. Taught in French. Prereq: FR 204.</td>
</tr>
<tr>
<td>FR 375</td>
<td>STUDY IN FRANCE OR QUEBEC</td>
<td>(4)</td>
<td>A study of the heritage and culture of France or French Canada, with special attention to the development of French conversational skills. Emphasizes contemporary culture and the history of French literature and civilization. May include excorted visits to appropriate sites, reinforced by formal lectures and directed study. May be repeated to a maximum of eight credits with a different topic and departmental approval. Prereq: FR 201 and consent of instructor.</td>
</tr>
<tr>
<td>FR 395</td>
<td>INDEPENDENT WORK IN FRENCH</td>
<td>(3)</td>
<td>Directed study in French literature and linguistics. May be repeated once. Prereq: Major, senior standing, 3.0 grade-point average in the department, consent of instructor, and approval of the Director of Undergraduate Studies.</td>
</tr>
<tr>
<td>FR 406</td>
<td>ADVANCED FRENCH GRAMMAR AND COMPOSITION</td>
<td>(3)</td>
<td>The course aims to present vocabulary and grammatical structures necessary in writing long, logically developed compositions in correct formal French. Compositions will be discussed and analyzed in class. Prereq: FR 306.</td>
</tr>
<tr>
<td>FR 412</td>
<td>FRENCH CONVERSATION II</td>
<td>(3)</td>
<td>Practice of language skills at an advanced level. Emphasis on fluency and command of contemporary French speech. Preparation of oral presentations. Prereq: FR 312.</td>
</tr>
<tr>
<td>FR 450</td>
<td>TOPICS IN FRENCH CULTURE (Subtitle required)</td>
<td>(3)</td>
<td>This course explores in depth a particular movement, trend, or issue in the cultural history of France. Taught in French. May be repeated to a maximum of nine credits under a different subtitle. Prereq: FR 350.</td>
</tr>
<tr>
<td>FR 465</td>
<td>TOPICS IN FRENCH LITERATURE AND CULTURE IN TRANSLATION (Subtitle required)</td>
<td>(3)</td>
<td>This course explores a significant author, literary genre, movement, trend, or issue in history of French cultural institutions with special emphasis on literature as an expression of culture. No knowledge of French is required. May be repeated to a maximum of nine credits under a different subtitle.</td>
</tr>
<tr>
<td>FR 470</td>
<td>STUDIES IN FRENCH LITERATURE (Subtitle required)</td>
<td>(3)</td>
<td>Study of an author, literary form, topic, or problem. Taught in French. Course may be repeated to a maximum of nine credits under different subtitle. Prereq: FR 304 and FR 305.</td>
</tr>
<tr>
<td>FR 501</td>
<td>FRENCH LITERATURE AND THE ARTS: THE MIDDLE AGES</td>
<td>(3)</td>
<td>A study of the interrelationship of French narrative, dramatic and poetic literature with the other arts – music and the plastic arts – in the period 1050-1500. Readings in French: Course conducted in English.</td>
</tr>
<tr>
<td>FR 504</td>
<td>TOPICS IN FRENCH LITERATURE AND CULTURE (Subtitle required)</td>
<td>(3)</td>
<td>Intensive study of an author, genre, period or movement of French literature or an aspect of French culture. May be repeated to a maximum of nine credits under a different subtitle.</td>
</tr>
<tr>
<td>FR 507</td>
<td>INTERPRETATION AND STYLE</td>
<td>(3)</td>
<td>Study of French style with attention to written and oral expression. Introduction to stylistic theory and methodology. Prereq: FR 406 or graduate standing.</td>
</tr>
<tr>
<td>FR 516</td>
<td>INTRODUCTION TO EARLY FRENCH</td>
<td>(3)</td>
<td>An introduction to the study of Old and Middle French. Emphasis will be on understanding the language through an examination of its phonology and grammar, and through practice in reading from selected texts, chiefly literary. Prereq: FR 304 and 305.</td>
</tr>
<tr>
<td>FR 550</td>
<td>FRANCE TODAY</td>
<td>(3)</td>
<td>A contrast between contemporary France in today’s Europe and the historical image of France. The impact of the “New Quiet French Revolution” and of the new institutions on French Society. Conducted in French. Prereq: FR 306 and consent of instructor.</td>
</tr>
<tr>
<td>FR 553</td>
<td>TEACHING OF FRENCH</td>
<td>(3)</td>
<td>The course is designed for teachers and prospective teachers of modern foreign languages, with emphasis on French. Modern methodology, theory and practice of language pedagogy.</td>
</tr>
<tr>
<td>FR 570</td>
<td>SEMINAR IN FRENCH LANGUAGE PEDAGOGY</td>
<td>(1)</td>
<td>A general seminar in a broad range of subjects in the area of French language pedagogy. May be repeated to a maximum of two credits. Prereq: Graduate student standing in French or consent of instructor.</td>
</tr>
<tr>
<td>FR 601</td>
<td>POETIC VISION (Subtitle required)</td>
<td>(3)</td>
<td>Examination of the major trends in French poetry; attention will focus on aesthetic problems, generic concerns, and various approaches to the nature of poetry. May be repeated to a maximum of six credits. Prereq: Consent of instructor.</td>
</tr>
<tr>
<td>FR 602</td>
<td>NARRATIVE TRADITION (Subtitle required)</td>
<td>(3)</td>
<td>A study of narrative structure and techniques as exemplified in selected masterpieces of French literature. May be repeated to a maximum of six credits. Prereq: Consent of instructor.</td>
</tr>
</tbody>
</table>
FSC 306 INTRODUCTION TO FOOD PROCESSING. (4)
Commercial processing of foods including theory and use of heat exchangers, separators, freezers, air and vacuum dryers, evaporators, membrane separation, electrodialysis, emulsion formers, extruders, and irradiators. Physico-chemical changes in osmotic pressure, vapor pressure, pH surface tension, viscosity, emulsification and colloidal dispersions in processed foods will be discussed. Processing of waste streams will also be discussed. Prereq: CHE 105, CHE 107, CHE 236.

FSC 395 SPECIAL PROBLEM IN ANIMAL SCIENCE/FOOD SCIENCE. (2)
Course designed for students interested in pursuing independently some specific problem. May be repeated for maximum of four credits. Prereq: Consent of instructor. (Same as ASC 395.)

FSC 399 EXPERIENTIAL LEARNING IN ANIMAL SCIENCES/FOOD SCIENCE. (1-6)
A field-based learning experience in animal sciences and food science under the supervision of a faculty member. May be repeated for a maximum of six credits as an elective on a pass/fail basis. Prereq: Consent of instructor and department chairperson and completion of a departmental learning contract before registration. (Same as ASC 399.)

FSC 434G FOOD CHEMISTRY. (4)
Chemical and physical properties of proteins, lipids, carbohydrates, pigments and food additives as they relate to food processing and food preservation. Lecture, three hours; laboratory, two hours. Prereq: BCH 401G or consent of instructor.

FSC 503 FOOD MICROBIOLOGY. (5)
Study of sanitation principles and techniques for ensuring the safety and wholesomeness of our food supply. Prereq: FSC 530 or equivalent.

FSC 535 FOOD ANALYSIS. (4)
Techniques and instrumentation used to determine the chemical composition of foods. Emphasis is placed on the principles of chemical analysis as it relates to foods and food processing. Lecture, two hours; laboratory, four hours per week. Prereq: FSC 434G.

FSC 536 ADVANCED FOOD TECHNOLOGY. (4)
Concepts of developing/improving new food products or food processing including: consumer awareness, marketing, ingredient specifications, product formulation, stabilization of product, packaging to meet shelf life goals, shelf testing of products, challenge testing, establishment of HACCP system, consumers testing, market testing, and introduction to the market. A capstone course, where all concepts of food science are used to extend or create new food products for the market place. Lecture, three hours; laboratory, four hours per week. Prereq: FSC 434G and completion of a departmental learning contract before registration. (Same as ASC 399.)

FSC 540 FOOD SANITATION. (3)
A study of sanitation principles and techniques for ensuring the safety and wholesomeness of our food supply. Prereq: FSC 530 or equivalent.

FSC 630 ADVANCED MEAT SCIENCE. (4)
Advanced meat science with special reference to the histological, chemical, physical and microbiological properties as they relate to meat quality, organoleptic acceptability and processing procedures. Lecture, three hours; laboratory, two hours. Prereq: ASC 304, ASC/FSC 306 or equivalent; one course in histology or biochemistry or consent of instructor. (Same as ASC 630.)

FSC 632 FOODBORNE DISEASE AGENTS. (3)
Discussion of microorganisms, toxins and chemicals involved in foodborne illnesses as well as procedures for controlling and investigating foodborne disease outbreaks. Prereq: FSC 530.

FSC 636 FOOD PACKAGING. (2)
Detailed description of food packaging materials, composition and resistance to chemical and physical damage and their use in food systems as well as criteria for selection of packaging systems for specific food processing techniques will be presented. Methods of production, e.g.: blow mold, casting and extrusion; layering; lamination and co-extrusion; processing; and printing and sealing will be discussed. Prereq: FSC 536, FSC 538 or equivalent or consent of instructor.
FSC 638 FOOD PROTEINS. (3)
This course deals with chemical, biochemical, and enzymatic significance of proteins in food systems; physiochemical and functional properties of animal and plant proteins, their interactions with lipids, carbohydrates, flavors, minerals and other food components during processing and storage, and resulting modifications of food quality. Prereq: FSC 434G or consent of instructor.

FSC 640 FOOD LIPIDS. (3)
An advanced study of the physical, chemical, and biochemical significance of lipids in foods. Topics include the structure and function of lipids in post-harvest physiology, interaction with other food components, and the effect of lipids on the physical properties of foods during processing and storage. Prereq: One course in Food Chemistry or Biochemistry.

FSC 780 SPECIAL PROBLEMS IN ANIMAL DERIVED FOODS. (1-4)
May be repeated for a maximum of nine credits. Prereq: Consent of graduate adviser. (Same as ASC 780.)

FSC 790 RESEARCH IN ANIMAL DERIVED FOODS. (1-6)
Problems involving original investigation. May be repeated for maximum of nine credits. Prereq: Consent of graduate adviser. (Same as ASC 790.)