

**5532. Design Pedagogy: Analysis and Processes.** 3 hours. Major emphasis on helping each student formulate a rationale/philosophy about the role of design/designers in the 21st century and his or her own role as a design educator; analysis/evaluation of effective undergraduate teaching methodologies for communication design education. Prerequisite(s): admission to the MFA in design with a concentration in innovation studies, or consent of instructor.

**5534. Design Pedagogy.** 3 hours. This seminar-based course examines the role of a design faculty member working within a collegial environment in the complete development of curricula for a new or revised program area. Prerequisite(s): admission to the MFA in design with a concentration in innovation studies, or consent of instructor.

**5536. University Citizenship and Tenure in Design.** 3 hours. This seminar-based course examines the role of a design faculty member in the larger university setting, including but not limited to school/college structures, committee work—both in the college and at the university level—budgeting, advising, scheduling courses, expectations for a designer/faculty member in a college and university environment. Prerequisite(s): admission to the MFA in design with a concentration in innovation studies, or consent of instructor.

**5538. Guided Teaching Internship.** 3 hours. (2;4) Each student is assigned to a professor in an undergraduate course. The student is expected to participate in the undergraduate course through assignment writing, presentation, critique, grading, handout preparation, advising and observation. Prerequisite(s): admission to the MFA in design with a concentration in innovation studies, or consent of instructor.

**5540. Communication Design Studio.** 3 hours. (0;6) For students qualified to develop professional competence in special areas of studio work. May be repeated for up to a total of 12 hours of credit.

**5545. Communication Design Lecture Topics.** 3 hours. Developing additional competence in special areas. Prerequisite(s): consent of instructor. Specific courses may require additional prerequisites. All may be repeated for credit.

**5546. Practicum in Innovation Studies I.** 3 hours. In a two semester-long project, interdisciplinary teams identify a single problem and solve various social, economic, cultural or market based issues that ultimately manifest themselves in a visual expression of one form or another. Emphasis is placed on conceptual problem solving, exploration of multiple hypotheses, and the development of innovative solutions. Prerequisite(s): admission to the MFA in design with a concentration in innovation studies, or consent of instructor.

**5548. Practicum in Collaborative Innovation Studies II.** 3 hours. Continuation and culmination of the problem developed in ADES 5546. Documentation and presentation of this project are required. Prerequisite(s): admission to the MFA in design with a concentration in innovation studies, and the completion of ADES 5546.

**5580. Parallels in Art, Culture and Fashion.** 3 hours. Concentrated overview of developments in 20th-century fashion and the relationships between movements in art, design and popular culture.

**5590. Fashion Design Studio.** 3 hours. (0;6) For students qualified to develop professional competence in special areas of studio work. May be repeated for credit.

**5605. Interior Design Studio.** 3 hours. For students qualified to develop professional competence in special areas of studio work. Prerequisite(s): 12 hours of art in the selected area and consent of college. May be repeated for credit.

**5730. Research in Design.** 3 hours. Study of research techniques and their applications in the field of design; preparation of prospectus.

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## Development and Family Studies

see Educational Psychology

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## Early Childhood Education

see Teacher Education and Administration

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## Economics

### *Economics, ECON*

**5000. Economic Concepts.** 3 hours. Theory of the firm under different market structures; demand theory, the Keynesian model and the money system.

**5020. Seminar on Economic Data Acquisition and Analysis.** 3 hours. Collection and analysis of economic data. Application of statistical and economic analysis to wide array of data, including monetary, unemployment, GNP, industrial productivity and inflation. Prerequisite(s): ECON 3550 and 3560 or consent of department.

**5030. Microeconomic Analysis.** 3 hours. Theory of the firm relating to production and employment; consumer behavior and related concepts of microeconomic efficiency. Prerequisite(s): ECON 1100-1110 or 5000. Usually offered fall and spring terms/semesters and 5W1 (summer session).

**5040. Macroeconomic Analysis.** 3 hours. National income determination and measurement, macroeconomic stabilization policy and macroeconomic theory. Prerequisite(s): ECON 1100-1110 or 5000. Usually offered fall and spring terms/semesters and 5W2 (summer session).

**5050. Seminar on Contemporary Economic Problems.** 3 hours. Investigation, analysis and discussion of significant problems in contemporary economics. Prerequisite(s): consent of department. May be repeated for credit.

**5070. Comparative Economic Systems.** 3 hours. An examination of the theoretical foundations, structure and performance of various economies of the world. Theoretical coverage emphasizes decision making, price systems, planning, information and motivation, rather than an ideological approach. Topics of modern capitalism are covered, as well as the non-Western economies of the former Soviet Union, Eastern Europe and China. Individual readings and research required. Prerequisite(s): ECON 1100-1110 or consent of department. Students may not receive credit for both ECON 4100 and 5070. Usually offered spring term/semester.

**5090. Seminar on the History of Economic Thought.**

3 hours. The development of economic thought since the Middle Ages. Prerequisite(s): ECON 1100-1110 or consent of department. Students may not receive credit for both ECON 4510 and 5090. Usually offered spring term/semester.

**5100. Seminar on Contemporary Economic Thought.**

3 hours. The development of economic thought since 1900. Prerequisite(s): 6 semester hours of advanced economics.

**5140. Managerial Economics.** 3 hours. Integrates microeconomic theory with accounting, finance, marketing and production management. Incremental reasoning to decision making under uncertainty. Prerequisite(s): ECON 3550 or 5030. Students may not receive credit for both ECON 4140 and 5140. Usually offered spring term/semester.

**5150. Public Economics.** 3 hours. Analysis of theoretical foundations, structure and performance of public sector. Includes issues of public choice theory, market failures, taxing, spending, borrowing and subsidies. Individual readings and research required. Prerequisite(s): ECON 1100-1110 or consent of department. Students may not receive credit for both ECON 4150 and 5150. Usually offered fall and spring terms/semesters and 5W2 (summer session).

**5160. Empirical Public Economics.** 3 hours. Empirical and quantitative analysis of public sector economics. Emphasizes the application of theoretical models in economics to real-world resource allocation decisions, such as taxes and expenditures, at all levels of government using econometric estimation procedures. Prerequisite(s): ECON 5640 or equivalent and ECON 5340 or 5600.

**5170. Seminar in the Economics of Taxation and Tax Policy.**

3 hours. Topics in tax policy, such as comprehensive tax base, consumption taxes, VAT taxes, equity and efficiency issues, tax rules and how they influence investment and consumption decisions. Prerequisite(s): enrollment in MS accounting or consent of instructor. Usually offered spring term/semester and 5W2 (summer session).

**5180. Economics of Health Care.** 3 hours. Application of economic theory and analysis to the financing and delivery of medical care. Emphasis on the use of economic concepts to understand public policy issues in medical care. Students may not receive credit for both ECON 4180 and 5180. Usually offered fall term/semester.

**5210. Seminar on Labor Area Economics.** 3 hours. Individual research in contemporary labor force problems; national and regional labor markets; remedial and curative labor policies. Prerequisite(s): 6 hours of advanced economics or consent of department.

**5250. Advanced Labor Seminar.** 3 hours. Designed to meet the needs of students prepared to do advanced and specialized work in the field of contemporary labor problems, legislation and labor theory. Prerequisite(s): 6 hours of advanced economics and consent of department chair. Usually offered spring term/semester.

**5270. Seminar in Labor and Industrial Relations**

**Problems.** 3 hours. Broad, interdisciplinary aspects of labor and industrial relations problems as currently emphasized by economic, social, political and business conditions. Wide variety of resource personnel from each of the academic disciplines, business, labor and government, and administrators who are experienced specialists in their areas.

**5280. Research Seminar in Labor and Industrial Relations Problems.** 3 hours. Research methodologies and problems in the areas of labor and industrial relations. Practical primary research is required of each student. Prerequisite(s): consent of department.

**5330. Advanced Macroeconomic Theory.** 3 hours. Rigorous theoretical and empirical analysis of a wide range of issues in macroeconomics, including economic growth, economic fluctuations, incomplete nominal adjustments, expectations formation, consumption, investment, unemployment, inflation, monetary policies, budget deficits and fiscal policies. Usually offered fall semesters. Prerequisite(s): ECON 3560 or 5040; ECON 4870 or 5640; and ECON 5600, or consent of department.

**5340. Advanced Microeconomic Theory.** 3 hours. Microeconomic theory and its applications. Emphasizes the logical structure of microeconomics and the formal specification of microeconomic problems. Special topics may include intertemporal choice, uncertainty and risk analysis; industrial organization and antitrust policy; advanced managerial economics; cost-benefit analysis. Prerequisite(s): ECON 3550 or 5030 and 5600, or consent of department. Usually offered spring term/semester.

**5400. Advanced Monetary Theory and Policy.** 3 hours. Classical and contemporary monetary theory; theoretical and policy problems in the area of money and credit; selected current topics in macroeconomics; applications to both the domestic and international economies. Prerequisite(s): ECON 4020 or equivalent, or consent of department.

**5420. Open Economy Macroeconomics.** 3 hours. Rigorous theoretical and empirical examination of: macroeconomic policy options and their impact in the open economy; international monetary reforms and the impact of balance of payments adjustments under different monetary systems; role of international trade and foreign investment in economic growth. Prerequisite(s): ECON 5330.

**5440. Economics of Natural Resources and Environment.** 3 hours. Natural resource management and use: problems of renewable and non-renewable resources, including scarcity and market responses, role of property rights, externalities, benefit-cost analysis and energy policy with emphasis on Texas. Analysis of environmental problems and policy formulation. Prerequisite(s): ECON 1100-1110 or consent of department. Students may not receive credit for both ECON 4440 and 5440. Usually offered fall term/semester.

**5460. Industrial Organization and Public Policy.** 3 hours. Emphasizes relationships between structure, conduct and performance of industries. Topics include concentration, barriers to entry, pricing, mergers, product differentiation, technical change, antitrust and regulation. Case studies of selected American industries illustrate the theory and public policy implications. Individual readings and research required. Prerequisite(s): ECON 3550 or consent of department. Students may not receive credit for both ECON 4460 and 5460. Usually offered spring term/semester.

**5550. Law and Economics.** 3 hours. Advanced economic analysis of the mutual interaction between legal systems and economic activity. Topics include an introduction to legal systems and institutions, legal analysis, application of economic concepts to various legal doctrines, contracts, torts, criminal law, constitutional law, regulation and antitrust. Emphasis is placed on using economic theory to develop and test hypotheses regarding the effects of laws on incentives and economic behavior, the allocation of resources and the distribution of income. Prerequisite(s): ECON 5000.

**5600. Mathematical Economics.** 3 hours. Mathematical approaches to economic theory: models of production, consumer choice, markets and pricing; simple macroeconomic models. Prerequisite(s): ECON 3550 or ECON 5030 and MATH 1710 or consent of department.

**5630. Research Methods.** 3 hours. Research methodology for business and the social sciences. Topics include research design; techniques of exploratory data analysis; measures of association; a survey of multivariate factor, discriminant and clustering procedures; and an introduction to linear regression analysis. Prerequisite(s): 3 hours of college statistics or consent of instructor. Offered fall term/semester only.

**5640. Multivariate Regression Analysis.** 3 hours. Focuses on the basic statistical methods employed in linear regression analysis using examples most often encountered in economics, finance and accounting. Topics include: linear and intrinsically linear regression models; estimation under ideal and non-ideal conditions, linear hypothesis testing; multicollinearity, and models with dummy variables. Usually offered fall and spring terms/semesters. Prerequisite(s): MATH 1710 and ECON 5630 or consent of department.

**5645. Empirical Linear Modeling.** 3 hours. Develops the tools necessary to analyze, interpret, and develop empirical applications of econometric estimation procedures. Students explore an assortment of applied problems that are typically encountered in quantitative research with particular attention given to the examination of real world, economic and business-related phenomena. Particular attention is given to developing proficiency in the following areas: organizing and manipulating data, estimating linear regression models, interpreting econometric results and computer output, and working with computer software. Prerequisite(s): ECON 5640.

**5650. Advanced Econometrics.** 3 hours. Focuses on the theoretical foundations of non-linear regression models often encountered in economics, finance and accounting. Topics include the multivariate classical linear regression model; ideal conditions for estimation of the classic linear regression model; linear and non-linear hypothesis testing; the method of maximum likelihood estimation; the consequences of departures from ideal conditions; structural and reduced form equations and models with endogenous regressors; models with qualitative and limited dependent variables; and models with panel data. Usually offered spring term/semester. Prerequisite(s): ECON 5600 and ECON 5640 or consent of department.

**5655. Econometric Analysis of Panel Data.** 3 hours. Focuses on econometric methods for analyzing panel data in economics and business-related fields. Analysis of linear panel data models by fixed effects and random effects. Topics include advanced methods for single equation analysis and some nonlinear panel data models. Model assumptions, specification, estimation, interpretation and inference are emphasized. Prerequisite(s): ECON 5640 or equivalent.

**5660. Time Series Econometrics and Forecasting.** 3 hours. Focuses on time series analysis and forecasting methodologies applied to problems typically encountered in economics, finance, and accounting. Topics include AR, MA and ARMA models; dynamic time series models; non-stationarity and tests for unit roots; ARCH and GARCH models; VAR models and impulse response functions; fractional integration and cointegration; and error correction models. Computer applications will be used to reinforce the theoretical models. Usually offered spring term/semester. Prerequisite(s): ECON 5640 or consent of department.

**5670. Topics in Empirical Econometrics.** 3 hours. Analysis, interpretation and development of empirical applications of econometric estimation procedures with emphasis on the examination of real-world economic phenomena and a focus on applied procedures including: dummy variables and structural change, heteroskedasticity, autocorrelation, simultaneous equations and causality, logit, probit, Tobit and panel data. Prerequisite(s): ECON 5650. Usually offered fall term/semester.

**5700. Economic Development.** 3 hours. General analysis and survey of development theories, problems and policies involved with those countries that have not yet attained the level of economic well-being and integration observed in the United States. Individual readings and research required. Prerequisite(s): ECON 1100-1110 or consent of department. Students may not receive credit for both ECON 4600 and 5700. Usually offered spring term/semester.

**5750. Urban and Regional Economics.** 3 hours. Using economic analysis to understand the development of cities and regions and how economic activity in the area is organized. Explores the economics of transportation and urban problems such as poverty, segregation, crime and congestion. Prerequisite(s): ECON 3550. Students may not receive credit for both ECON 4650 and 5750.

**5850. International Trade.** 3 hours. Examines the nature and theoretical foundations of modern trade between nations. Topics to be covered include patterns of international trade and production, welfare implications of trade, impacts of tariffs and quotas, balance of trade and balance of payments issues. Analysis of trade implications of international monetary systems, multinational corporations, exchange rates and economic implications of political action. Individual readings and research required. Prerequisite(s): ECON 1100-1110 or consent of department. Students may not receive credit for both ECON 4850 and 5850. Usually offered fall and spring terms/semesters and 5W1 (summer session).

**5880. Seminar on Current Health Care Economics Research.** 3 hours. Topics include health care reform; problems associated with health insurance markets; alternative health care financing systems in the United States and other countries; health care regulation by the states; universal health care coverage; and the "public goods" nature of health care. Topics are subject to change depending on the current trends in the field and relevancy to students' interests. The course includes presentations and discussion of the student's research papers. Prerequisite(s): ECON 4180 or 5180.

**5900-5910. Special Problems.** 1–3 hours each. Open to advanced students capable of doing independent research under the direction of the instructor. To be registered for only on recommendation of the department chair.

**5920-5930. Research Problems in Lieu of Thesis.** 3 hours each. Required of Master of Science candidates majoring in economic research or labor and industrial relations who choose not to take the exit exam (Option 1). A problem in lieu of thesis with an emphasis on empirical studies will be written and submitted. Prerequisite(s): consent of department.

**5950. Master's Thesis.** 3 or 6 hours. To be scheduled only with consent of department. 6 hours credit required. No credit assigned until thesis has been completed and filed with the graduate dean. Continuous enrollment required once work on thesis has begun. May be repeated for credit. Required for Master of Arts and Master of Science in economics.

**5960-5970. Economics Institute.** 1–6 hours each. For students accepted by the university as participants in special institute courses. May be repeated for credit, but not to exceed a total of 6 hours.

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## Education, Music

see Music

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## Educational Administration and Supervision

see Teacher Education and Administration

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## Educational Curriculum and Instruction

see Teacher Education and Administration

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## Educational Foundations

see *Undergraduate Catalog*

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## Educational Psychology

### **Development and Family Studies, DFST**

**5030. Practicum, Field Experience, or Internship.** 3, 6 or 9 hours each. Supervised professional activities in development and family studies. Registration is on an individual basis and student must have prior consent of professor.

**5113. Developmental and Family Theory.** 3 hours. Survey of classic and contemporary theories in the fields of human development and family studies, including the role of theory in empirical investigation, conceptual frameworks, strategies of theory building, and an examination of theoretical perspectives useful in the study of behavior.

**5123. Human Development Across the Life Span.** 3 hours. The processes and stages that individuals undergo as they progress from birth through old age and death are studied from a human ecological perspective. Developmental tasks and concepts are explored.

**5133. Infant and Child Development.** 3 hours. Findings and implications of current theory and research in emotional, social, cognitive, language, physical and perceptual development from birth through infancy and older childhood.

**5143. Cognitive and Language Development.** 3 hours. Comprehensive developmental sequence of cognitive development and language acquisition from birth through adulthood, focusing on theories and research related to cognitive, perceptual and language development, as well as relationships between language and thought.

**5153. Social-Emotional Development.** 3 hours. Comprehensive developmental sequence of social and emotional development from birth through adulthood. Course content focuses on both theory and research pertaining to the development of emotions and temperament as well as intra- and interpersonal issues of social development.

**5163. Diversity in Individuals and Families.** 3 hours. Readings considering the mutual effects of children and families and their diverse contexts. A wide variety of individual strengths and needs are identified and examined. Diversity issues discussed include cultural, ethnic, gender, sexuality, language and developmental differences. Examination of personal and societal attitudes is emphasized.

**5313. Parent-Child Interaction.** 3 hours. Study of parent development and relationships with children throughout the family life cycle. Focus on empirical studies related to dynamics of parent-child interaction. Impact of parenting upon development and socialization of children.

**5323. Parent and Family Education.** 3 hours. Empirical knowledge and skills required for education and leadership of parents and families. Overview of major theoretical and programmatic approaches to parent and family education. Application of models and techniques.

**5333. The Changing Family.** 3 hours. Highlights the major changes and current trends in family structure and the resulting implications of these changes and trends. Topics include single-parent families, cohabitation, non-marital fertility, etc.

**5413. Family Relationships.** 3 hours. An analysis of the influences that affect modern family life; consideration of variant family forms.

**5433. Partnerships: Family, School and Community.** 3 hours. The reciprocal responsibilities of the family, school and community for a child's welfare and education are stressed. Strategies to improve communication and collaboration are emphasized with a focus on family types, cultures, economic conditions, school systems, community services, political forces, advocacy groups and other factors that impact young children and their families.

**5443. Family Economics and Management.** 3 hours. Theories, models and research related to family resource management. Family economic issues, public policy, consumer issues, work/life issues. Consideration of diverse family cultures, values and attitudes as factors in family resource management.

**5800. Special Topics in Developmental and Family Studies.** 1–3 hours. Organized classes designed to accommodate the needs of students and demands of program development not met by regular offerings. Short courses and workshops on specific topics are offered on a limited basis, to be repeated only upon demand. May be repeated for credit.