852  SAS Programming II: Data Management and Analysis
Spring. 1(1-0) P:M: (EPI 851) R: Open only to graduate students in the Epidemiology major or approval of department.
A programming approach to plan and write SAS programs to solve complex data management and data analysis problems.

853  SAS Programming III: Research Data Analysis Using SAS
Summer. 1(1-0) P:M: (EPI 852) R: Open only to graduate students in the Epidemiology major or approval of department.
A programming approach to plan and write SAS programs to solve data management and data analysis problems in research settings.

890  Independent Study in Epidemiology
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (EPI 810) R: Open only to master’s students in the Epidemiology major. Approval of department. SA: HIM 890
Independent study in areas relevant to epidemiology such as population genetics.

899  Master’s Thesis Research
Fall, Spring. 1 to 12 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open only to master’s students in the Epidemiology major. Approval of department. SA: HIM 890
Master’s thesis research.

910  Themes in Contemporary Epidemiology
Fall of odd years. 3(3-0) RB: Master of Science in Epidemiology
Discussion and critique of important contemporary themes in epidemiology as reflected in current publications in the field.

915  Advanced Survival Analysis
Spring of odd years. 3(3-0) Interdepartmental with Statistics and Probability. RB: (EPI 810 and EPI 826 and EPI 852)
Methods of analysis of time to event data parametric and nonparametric models, frailty models.

920  Advanced Methods in Epidemiology and Applied Statistics
Spring of even years. 3(3-0) Interdepartmental with Statistics and Probability. P:M: (EPI 826)
Pattern recognition and cluster analysis, longitudinal data analysis, path analysis, repeated measures and time-series analysis.

925  Modeling in Epidemiology I
Fall of odd years. 3(3-0) P:M: (EPI 910) RB: Experience in statistical analysis of biological data.
Critical examination of epidemiological thinking about the determinants of non-communicable diseases.

930  Modeling in Epidemiology II
Spring of even years. 3(3-0) P:M: (EPI 910 and EPI 925) RB: Mathematics through calculus.
Critical examination of epidemiological thinking about the determinants of communicable diseases and illnesses with both communicable and non-communicable causes.

935  Research Seminar
Spring of even years. 3(3-0) P:M: (EPI 810 and LCS 829 and EPI 812) RB: Master of Science in Epidemiology or equivalent.
Conceptualization, development, and writing of research proposals in epidemiology and other forms of clinical field research.

940  Epidemiological Consultations
Spring of odd years. 3(3-0) P:M: (EPI 810) RB: Master’s level training in epidemiology or biostatistics.
Practical training in providing research consultations in epidemiology and biostatistics.

945  Molecular Epidemiology
Fall of even years. 3(3-0) P:M: (EPI 910 or concurrently)
Strategies for incorporation of genetic and non-genetic biomarkers in epidemiology.

950  Advanced Biostatistical Methods in Epidemiology
Fall of even years. 3(3-0) P:M: (EPI 920)
In-depth study of specific biostatistical methods and epidemiology applications.

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

EMB—Executive MBA Program

811  Organization Design and the Management of Change
Fall. 2(2-0) Fall: MSU Management Educa. RB: (EMB 801) R: Open only to students in the Executive M.B.A. Program. SA: MGT 819
Alternative methods of organization. Dividing tasks and coordinating divided parts. Strategies for implementing new organizational forms and for changing strategies in general.

812  Managerial Accounting
Fall. 3(3-0) Fall: Troy. MSU Management. P:M: (EMB 802 or concurrently) R: Open only to students in the Executive M.B.A. Program. SA: ACC 812

820  Marketing Management
Spring. 2(2-0) Spring: Troy. MSU Mgt Ed Cen. SA: MSC 822, MSC 823, MCB 820
Concepts, methods, and applications of decision-making to address marketing issues such as market segmentation and positioning, new product development, promotional and distribution strategies. Techniques to model and analyze marketing decision problems to ensure optimal performance results.

821  Financial Management
Spring. 3(3-0) Spring: Troy. Mgt. Educ. Cen. RB: (EMB 802) R: Open only to students in the Executive M.B.A. Program. SA: FI 821

822  Supply Chain Management
Spring. 3(3-0) Fall: Troy. MSU Mgt Ed Ctr. Spring: Troy. MSU Mgt Ed Ctr. R: Open only to students in the Executive MBA Program. SA: MSC 822, MSC 823, MCB 820
Integrative approach to product design, development, and delivery. Flow of products from concept development through delivery to the final user. Product and process development, managing information and product flows. Total quality management. Resource and capacity management.

828  Strategic Marketing
Fall. 2(2-0) Fall: Troy. MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: ML 818, MTA 818, MSC 818

831  Law and Business
Fall. 2(2-0) Fall: Troy. MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: GBL 859
Executive MBA Program—EMB

836 Management in the Global Marketplace
Summer. 3(3-0) Summer: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MGT 836, MSC 836

842 Managerial Economics and Public Policy
Spring. 2(2-0) Spring: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: EC 842
Analysis of the firm. Demand and revenues, optimal production, cost minimization, supply, profitability, and pricing. Competitive forces and public policies in the firm's regional and international markets.

844 Leadership: An Executive Challenge
Fall. 2(2-0) Fall: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MGT 839
Motivating others toward a shared vision. Classic and popular theories of leadership. Fundamental practices of exemplary leadership. Examination of personal leadership styles and development of a personal plan for leadership development.

845 New Technology and Products Management
Fall. 2(2-0) Fall: Troy, MSU Mgt Ed Cen. R: Open only to students in the Executive M.B.A. Program. SA: MSC 832

847 Managerial Decision Support Models
Fall. 3(3-0) Fall: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MSC 847
Development and application of analytical models to support decision making. Topics include data analysis and multiple regression, linear optimization, decisions under uncertainty, forecasting, risk and decision analysis.

852 Macroeconomics in a Global Economy
Spring. 2 to 3 credits. Spring: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: EC 852
Measurement, determinants, and forecasting of national income, employment, interest rates, and inflation. Analysis of business fluctuations, fiscal and monetary policy, international trade, and capital flows.

855 Labor and Management Relations
Spring. 2(2-0) Spring: MSU Management Education Center, Troy. Interdepartmental with Labor and Industrial Relations. R: Open only to students in the Executive M.B.A. Program. SA: MGT 855

856 Organizational Behavior and Human Resources Management
Summer. 2 to 3 credits. Summer: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MGT 846
Management of human resources. Organizational culture, motivation, communications, employee perceptions, individual and organizational learning. Staffing, interviewing, training, development, appraisal, terminating, and legal issues.

858 Financial Strategies
Spring. 2(2-0) Spring: Troy, MSU Mgt Ed Cen. R: Open only to students in the Executive M.B.A. Program. SA: FI 858
Formulation and analysis of corporate strategies aimed at the creation and transfer of shareholder value. Relationship of corporate activities to overall firm performance and valuation.

861 Strategic Management of Information Technologies
Spring. 2 to 3 credits. Spring: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MGT 861
Impact of advances in information technology on business models, organization structures and processes, and methods for sustaining innovation. Estimation and realization of the business value of information technologies.

863 Strategic Management
Spring. 2 to 3 credits. Spring: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MGT 863
Determination of the strategic direction of the firm and management of strategic processes in the firm. Integration of environmental factors, industry dynamics, organizational resources, and management functions in the analysis and solution of strategic issues. Business-level strategy. Strategic management of firms with diversified product and global operations.

865 Business Ethics and Professional Responsibility
Spring. 2(2-0) Spring: Troy, MSU Mgt Ed Ctr. R: Open only to students in the Executive M.B.A. Program. SA: MGT 865
Alternative ethical prescriptions for business and for enterprise managers and their evolution with globalization of the markets. Societal expectations of what constitutes responsible and irresponsible business behavior. Government regulation and changes in corporate governance as alternatives to conformity to ethical prescriptions. Negotiation and reconciliation of conflicting ethical prescriptions, governance procedures, and the regulatory environment.

891 Special Topics in Executive Management
Fall, Spring. Summer. 1 to 3 credits. Fall: Troy, MSU Mgt Ed Ctr. Spring: Troy, MSU Mgt Ed Ctr. Summer: Troy, MSU Mgt Ed Ctr. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the Executive M.B.A. program. SA: MGT 891
Faculty-supervised study in special topics relevant to business executives.

FAMILY AND CHILD ECOLOGY
Department of Family and Child Ecology
College of Human Ecology

145 The Individual, Marriage and the Family
Fall, Spring. 3(3-0) R: Open only to freshmen.
Development of the young adult in the human ecological context. Issues of sexuality, gender, parenting, work and family interface, communication, and resource use. Diversity in relationships and families.

211 Child Growth and Development: Conception Through Early Childhood
Fall, Spring. 3(3-0) R: Not open to freshmen.
Physical, cognitive, social, emotional, and ecological aspects of human growth and development from conception through early childhood.

212 Children, Youth and Family Groups
Fall, Spring. 3(3-0)
An ecosystems perspective on development during childhood and adolescence emphasizing family and community contexts.

225 Ecology of Lifespan Human Development in the Family
Fall, Spring. 3(3-0) R: Not open to seniors.
Human development across the lifespan with an ecological perspective. Relationships between human resource professionals and family systems.

238 Personal Finance
Fall, Spring, Summer. 3(3-0) R: Not open to seniors.
Strategies, techniques and resources useful in the management of personal finance.

270 Introduction to Family Community Services
Fall, Spring. 4(3-2)
Family community services from an ecological perspective. Professional orientation and factors influencing the field. Participation in community agency required.

280 Community as Context for Individual and Family Development
Fall. 3(3-0)
Families and individuals fit within a community over their life span from an ecological perspective. Analysis of change. Influence of context on development and its implications for family community services.

320 Interaction Processes with Children in Groups
Fall, Spring. 3(3-0) R: Open only to students in the Department of Family and Child Ecology or Graduate Lifelong Education students pursuing additional endorsement in Early Childhood Education. C: FCE 320L concurrently
Principles of verbal and non-verbal interaction in relation to children's behavior in groups. Focus on young children in early childhood programs.