MANAGEMENT — MGT

College of Business

101. Introduction to Business
Fall, Winter, Spring, 4(4-0) University College students or approval of department. Functions performed by business and the role of administration in our economy as a whole and in the operation of a specific business. Four major objectives: to aid students in choosing a voca-
tion, to help business majors select a field of concentration, to show the place of specialized techniques presented in more advanced busi-
ness courses, and to give some familiarity with common business practices and terminology.

302. Organization and Management
Fall, Winter, Spring, Summer, 4(4-0) Junior Business majors; EC 201, AFA 201. Executive roles and functions in the business enterprise and other goal directed institutions; organization design; organization/environment interaction; analysis of internal organization structure; leadership, motivation, conflict, organiza-
tion change and development.

303. Materials and Logistics Management
(300) Fall, Winter, Spring, Summer, 4(4-0) Juniors in the College of Business or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration. Management concepts and techniques for purchasing, operations and distribution processes, productivity and profit contributions. Planning, analysis and control of purchasing, production and transportation-distribution.

304. Operations Planning and Control
(301) Winter, Spring, 4(4-0) MGT 303 or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration. Managing the production system. Product development, process selection, facilities location and layout; staffing, materials, cost and quality control.

305. Purchasing Management
Fall, Winter, Spring, 4(4-0) MGT 303 or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration. Planning, organizing and controlling the purchasing function within organizations. Purchasing responsibilities, objectives and policies. Source selection and evaluation. Price, cost and value analysis. Negotiation. Managing purchase inventories.

306. Analysis of Processes and Systems
Fall, Winter, Spring, 4(4-0) CPS 110, MTA 317 or concurrently. Analysis of some fundamental systems and process concepts which are basic to industrial management. The course is oriented toward computer model building, acquiring the student with the use of the computer as an instrument for analysis of complex problems in industry. Course includes consideration of criteria for efficiency and optimization, and program plan-
ing.

310. Fundamentals of Personnel Management
Fall, Winter, Spring, Summer, 4(4-0) Juniors. Formulation and administration of employee re-
relations policies in the business enterprise; human resource utilization; introduction to per-
sonnel staffing, training and development, performance appraisal, compensation, and labor re-
lations.

341. Transportation Distribution Systems
Fall, Winter, Summer, 4(4-0) MGT 303 or approval of department. Interdepartmental with and administered by the Department of Marketing and Transportation Administration. Application of economic and business principles to transportation and distribution systems, functional analysis of all major transport modes. Identification of major issues, analysis of alter-
natives and discussion of probable future out-
comes.

342. Traffic Management
Winter, Spring, Summer, 4(4-0) MGT 303 or approval of department. Interdepartmental with and administered by the Department of Marketing and Transportation Administration. Basic practices related to purchasing and operating transportation services for private and public enterprises.

403. Research and Negotiation for Purchasing Materials and Management
Winter, Spring, Spring, 4(4-0) MGT 303 or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration. Applied research and planning focusing on the purchasing and materials management func-
tions in organizations. Preparation for and con-
ducting purchase negotiations. Field research studies. Administration of the research and planning effort.

405. Operations Management Topics
Spring, 4(4-0) MGT 303 or approval of department. Interdepartmental with the Depart-
ment of Marketing and Transportation Administration. Consideration of current and controversial ques-
tions in operations management. Field experi-
cence to study operations and policies in busi-
ness, industry studies; impact of new technol-
y and government regulations.

406. Introduction to Management Science
Winter, Spring, 4(4-0) MGT 306. Quantitative models and techniques applied to various business problems integrating the com-
peter into the problem solving process. Topics include linear programming, integer pro-
gramming, dynamic programming, queuing prob-
lems, Bellman Decision Theory, theory of games.
Descriptions – Management of Courses

426. Personnel Training and Individual Development
Fall. (4-4) MGT 310.
The training and development function; career stages and career planning; needs analysis; training and individual development techniques; evaluation of training and employee development programs.

445. Physical Distribution Management
Fall, Winter, Spring. (4-4) MTA 303 or approval of department. Interdepartmental with and administered by the Department of Marketing and Transportation Administration.
Microanalysis of private and public physical distribution systems. Emphasis on component parts of the movement system; analytical tools used in planning, implementing and controlling the system.

469. Field Studies
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 8 credits. Business administration majors and approval of department.
Planned program of observation, study, and work in selected business firms. Designed to supplement classroom study in such a way as to make maximum contribution to students' total educational experience. Field work may be arranged in finance, insurance, marketing, personnel management, production management, purchasing, real estate, retailing, transportation and banking.

800. Materials and Logistics Management
Fall, Winter, Spring, Summer. (4-4) Graduate students. Interdepartmental with the Department of Marketing and Transportation Administration.
Management concepts and frameworks for acquisition, conversion and distribution processes. Impact on business and social systems, productivity and costs. Emphasis on planning, analysis and control of purchasing, production and physical distribution.

801. Operations Management
Winter. (4-4) MGT 800 or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration.
Managing the production system. Strategies of product and process selection. Design of production facilities, location, layout and capacity. Organizing and staffing operations and work measurement. Controlling quality and costs.

803. Purchasing Administration
Winter, Spring. (4-4) MGT 800. Interdepartmental with the Department of Marketing and Transportation Administration.

806. Organization and Administration
Fall, Winter, Spring, Summer. (4-4) Approval of department.
 Dynamics of organization: the organization seen as an open system interacting with a rapidly changing environment, as a structure of organized human cooperation, as an instrument of managerial strategy: current theory and research applied to organizational process and design.

807. Administrative Policy
Fall, Winter, Spring, Summer. (4-4) MGT 806, MTA 805, AFA 888. Last term MBA students or approval.
Application of administrative theory and techniques to business situations through cases cutting across major functions within business organization. Cases viewed from standpoint of general management with consideration of social and physical environmental forces surrounding the firm.

809. Seminar in Management, Organization, and Administration
Fall, Winter, Spring, Summer. (4-4) May reenroll for a maximum of 12 credits.
Philosophy, practice, research, and current problems in management, organization, and administration. Historical and current literature, lectures, discussion, individual research, cases and plant visits are methods of study used in various terms.

814. Human Relations in Management
Fall, Spring. (4-4) Approval of department.
The executive role: Theories and techniques of leadership, communications, conflict management, morale, motivation, authority, power, examined by means of cases, role playing, laboratory exercises, and study of behavioral science research findings.

815. Materials Forecasting
Fall. (4-4) Graduate students or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration.
Objectives and procedures for managerial control of work injuries and illness in business and other organizations. Complying with federal and state law, correcting hazards, analyzing costs, modifying behavior. Product safety.

816. Transportation Policy and Plans
Fall, Winter. (4-4) MGT 800. Interdepartmental with and administered by the Department of Marketing and Transportation Administration.
An operational model and theoretical perspective on national policies that are apt to shape the future of the transportation system. Interaction of government, carrier, and user logistics and distribution strategies.

818. Supervisory and Executive Development
Fall, Winter. (4-4) MGT 806 or MGT 808.
Theory and research of developmental stages of executive careers. Special emphasis on: impact of organization on executive potentiality; forces influencing development of executive skills and abilities; studies of antecedents of executive role performance; role of training programs.

821. Production and Inventory Planning and Control
Winter, Spring. (4-4) MGT 800 or approval of department. Interdepartmental with the Department of Marketing and Transportation Administration.
Theory and practice of production and inventory planning and control. Focus on computer based planning systems for material requirements including aggregate planning, master scheduling, capacity planning, shop floor control and inventory planning.

831. Computers and Systems Analysis for Business
Fall, Spring. (4-4) MTH 111, SIT 315 or concurrently or 12 credits of college mathematics. Open only to MBA candidates without background in computer usage and systems analysis.
Computer programming and systems analysis in business administration.

832. Statistical Methods for Business
Fall, Spring. (4-4) MTH 111, SIT 315.
Open only to MBA candidates without background in statistics.
Statistics for analysis and research in business.
833. Decision-Making Models
Fall, Winter, Spring, Summer. 4(4-0)
MGT 831, MGT 832, AFA 840 or concurrently.
Normative decision analysis in business under different assumptions of information availability.

834. Linear Optimization Models
Fall, Spring. 4(4-0) MGT 833; MTH 334 or EC 480.

835. Nonlinear Optimization Models
Winter, Summer. 4(4-0) Students may not receive credit for both SYS 835 and MGT 835. MTH 215 or MTH 228; MGT 834 or CHE 461. Interdepartmental and jointly administered with Systems Science. Interdepartmental with the Department of Chemical Engineering. Nonlinear optimization-examples and applications. Karush-Kuhn-Tucker theory. Saddle point optimality conditions. Algorithms for problems with constraints. Unconstrained optimization. Introduction to search methods.

836. Applied Stochastic Processes for Business
Spring. 4(4-0) MGT 833, MTH 228, STT 403.
The structure and analysis of stochastic models common to business and economics. Topics may include the Poisson process, renewal-reward processes, Markov processes, with examples from queuing, reliability, maintenance and inventory.

837. Systems Simulation
Fall. 4(4-0) MGT 833. Interdepartmental with the Department of Statistics and Probability.
The concept of a model, model building, characteristics of simulation models, and the technique of computer simulation. Simulation models in research and management planning/control. Validation and experimental design. Special purpose languages.

841. Materials and Logistics Management Policy
Summer, Spring. 4(4-0) MGT 880 plus 30 credits in the MBA Program. Interdepartmental with and administered by the Department of Marketing and Transportation Administration.
Case course that integrates the materials and logistics management program. Emphasis on problem recognition, applying course materials and preparation of plans that improve total systems performance.

848. Management Science Applications
Summer. 4(4-0) MGT 833.
Analysis of cases utilizing techniques of management science. Problem definition, data collection, and problem solving and implementation.

860. Corporation Management and Society
Spring. 4(4-0) MGT 806.
Analysis of the emerging character of administrative structure of the large corporation. Administrative emergency, corporate government, stockholder and director relationships. Examination of ethics of decision making, strategic values and priorities basic to resource allocation decisions.

880. Organization and Control in the Political Economy: Institutions and Theory
Winter of even-numbered years. 4(4-0) Interdepartmental with and administered by the Department of Economics.
Organization and technique in choice and implementation of economic, especially planning, programming, functions of political authority.

881. Organization and Control in the Political Economy: Selected Problems
Winter of odd-numbered years. 4(4-0) Approval of instructor. Interdepartmental with and administered by the Department of Economics.
Analysis of role and tasks, appropriate techniques and organizational structures of political agencies in planning and management of complex programs.

890. Special Problems
Fall, Winter, Spring. Variable credit. Approval of department.

906. Behavioral Research: Organization
Winter. 3 credits. MTA 905.
Concepts and methods of behavioral research that are applicable to study of organizations as a strategic device in development of tangible and intangible values and in the control of elements of business enterprise.

907. Seminar in Organizational Behavior
Fall. 4(4-0) MGT 806.
Directed reading on the behavior of individuals within business organizations. Theory and research in motivation, leadership, and group dynamics are covered.

908. Seminar in Organization Theory
Winter. 4(4-0) MGT 806; doctoral candidates and master's candidates with approval of department. Interdepartmental with the Department of Psychology.
Directed reading and research on issues in contemporary organization theory.

911. Seminar in Personnel Research
Spring. 4(4-0) MGT 810; doctoral candidates and master's candidates with approval of department.
Directed reading and research on issues in contemporary personnel administration theory and practice.

945. Mathematical Programming for Business
Spring of even-numbered years. 4(4-0) MGT 835. Interdepartmental with the Department of Statistics and Probability.

949. Advanced Applied Stochastic Processes
Spring of odd-numbered years. 4(4-0) MGT 836. Interdepartmental with the Department of Statistics and Probability.
Selected topics from the following areas: Semi-Markov process models, Markov-renewal and regenerative process models, semi-Markov decision processes, decision theory, applications from production, inventory, reliability, queuing, and gaming theory.

999. Doctoral Dissertation Research
Fall, Winter, Spring. Summer. Variable credit. Approval of department.