LYMAN BRIGGS SCHOOL

493*. Field Experience

Fall, Spring. 1 to 10 credits. May reenroll for a maximum of 10 credits. R: Not open to freshmen and sophomores.

Open only to Lyman Briggs School majors. Experiential learning related to the public or private practice of science and technology. QA: LBS 493

MANAGEMENT

MGT

302*. Management and Organizational Behavior

Fall, Spring, Summer. 3(3-0)
P: EC 201 or 251H; ACC 201 or ACC 230
or ACC 251H R: Juniors and Seniors Business or
Program for which MGT 302 is ctlg-listed requ.
Managerial roles and functions in goal directed institutions; organization design, analysis of organizational structure; leadership, motivation, work attitudes, conflict management, and managing diversity. QP: ACC 201 ACC 230ACC 251HEC 201EC 251H QA: MGT 302

303*. Materials and Logistics

Management
Fall, Spring, Summer. 3(3-0)
Interdepartmental with the Department(s) of Marketing and Transportation Administration. P: EC 201 or EC 251H; ACC 202 or ACC

230 or ACC 251H R: Juniors and Seniors Business or program for which MGT 303 is catalog requirement Role of manufacturing/operations, purchasing/sourcing and transportation/distribution in determining the competitiveness of manufacturing and service enter-prises with respect to quality, flexibility, cost and lead time.

QP: ACC 202 ACC 230ACC 251HEC 201EC 251H QA: MGT 303

304* Operations and Purchasing Management

Fall, Spring, Summer. 3(3-0) Interdepartmental with the Department(s) of Marketing and Transportation Administration. P: MGT 303 or MTA 303 R: Juniors and

Seniors Business or program which MGT 304 is cata-

log requirement

Overview of Operations and Purchasing Management functions in an organization; materials management tactical issues in implementing internal and external resource plans. QP: MGT 303 QA: MGT 304 MGT 305

306*. Decisions Making Models

Spring. 3(3-0)
P: MTA 317, MTH 120 or equivalent R:
Juniors and Seniors Business
Basic analytical techniques used for analyzing busi-

ness decision situations; optimal resource allocation decision models, forecasting and planning, computer simulation decision analysis under risk, project management, use of computer software.

QP: MTA 317 QA: MGT 306

310*

Human Resource Management Fall, Spring, Summer. 3(3-0) P: MGT 302 or concurrently R. Juniors and Seniors Business and programs which MGT 310

is catalog requirement
Formulation and administration of human resource policies in the business enterprise. Manpower plng, job anal/eval., staffing, compensation/labor relations, employee safety. Training, development, performance appraisal. Issues of diversity and ethics QP: MGT 302 QA: MGT 310 401*. Procurement and Supply Management

Fall, Spring, Summer. 3(3-0) Interdepartmental with the Department(s) of Marketing and Transportation Administration. P: MGT 304 or MTA 304; MTA 345 or

MGT 345 R: Juniors and Seniors Business or program for which MGT 401 is catalogue requireme
Strategic issues in procurement and supply management dealing with management of the purchasing process, the procurement cycle, purchasing research, buyer/supplier relationships, negotiation, commodity planning, cost/price analysis and value analysis.

QP: MGT 303 QA: MGT 403

402*. Manufacturing Planning and Control

Fall, Spring, Summer. 3(3-0) Interdepartmental with the Department(s) of Marketing and Transportation Administration. P: MGT 304 or MTA 304, MTA 345 or

MGT 345 R: Juniors and Seniors Business MGT 345 R: Juniors and Seniors Business
Theory and practice for planning and controlling
manufacturing operations; production planning, demand mgmt, master scheduling, mat'ls requirements
and capacity planning, shop floor control, computer
integrated manufacturing, and Just-In-Time systems.

QP: MGT 304 QA: MGT 405

403*. Topics in Purchasing/Sourcing Management

Fall of even-numbered years. 3(3-0) Interdepartmental with the Department(s) of Marketing and Transportation Administration.
P: MGT 304 or MTA 304, MTA 345 or
MGT 345 R: Juniors or Seniors Business

Advanced coverage of sourcing and negotiation strategy development processes, sourcing strategies, price and cost analysis, purchasing research techniques and other current issues and trends. *QP: MGT 305*

404*. Topics in Operations Management

Spring of odd-numbered years. 3(3-0) Interdepartmental with the Department(s) of Marketing and

Transportation Administration.
P: MGT 304 or MTA 304, MTA 345 or
MGT 345 R: Juniors or Seniors Business
Advanced coverage of operations management topics
of current interest such as total quality management, computer integrated manufacturing, simultaneous engineering, and other current issues and trends. QP: MGT 304

409*

Business Policy and Strategic Management(W) Fall, Spring, Summer. 3(3-0) P:MGT 302, MGT 303, Fl 311, and MTA

300 R: Senior Business Techniques for building and maintaining consistent and effective policy/strategy frameworks in the business enterprise, cutting across the major functions within a firm: strategic integration, ethics, and international competition.

OP: MGT 302 F1 391MTA 300 QA: MGT 409

411*. Organizational Staffing Fall. 3(3-0)

P: MGT 310 or concurrently R: Juniors and Seniors Business and programs which MGT 411 is catalogue requirement

Job and organizational analysis, manpower planning, recruitment, selection and placement, employment interviewing and testing; validation of selection procedures, EEO guidelines, affirmative action, diversity, and ethics issues, OA. MCT 411

QP: MGT 310 QA: MGT 411 412*. Compensation and Reward

Systems
Spring. 3(3-0)
P: MGT 310 or concurrently R: Juniors and Seniors Business and programs which MGT 412

Designing compensation systems; job evaluation, internal and external equity, pay-for-performance plans, financial incentives, intrinsic and extrinsic motivation, wage/salary surveys, benefits administra-tion; diversity and ethical considerations. QP: MGT 310 QA: MGT 412

Personnel Training and 413*. Development

Spring. 3(3-0)
P: MGT 310 or concurrently R: Juniors and Seniors Business and programs which MGT 413

is catalogue requirement

Designing and implementing training and development programs; career stages and career planning; needs analysis; experimental design and program evaluation; learning theories; diversity and ethics

issues. QP: MGT 310 QA: MGT 426

414*. Diversity in the World of Work Fall. 3(3-0)

P: MGT 310 or concurrently R: Juniors and Seniors Business and programs which MGT 414

is catalogue requirement Racial, ethnic, sexual, physically handicapped, and other minority experiences and problems in work organizations. Awareness training for managers of a diverse work force. Ethical issues. QP: MGT 310 QA: MGT 417

Special Topics in Human Resource Management 415*.

Spring of even-numbered years. 3(3-0) P: MGT 310 or concurrently R: Juniors

and Seniors Business and programs which MGT 415 is catalogue requirement

Undergraduate seminar on topics of interest to specialists in human resource management. Topics will include advanced organizational behavior, managing labor relations, organizational development, organizational theory and design.

QP: MGT 310 QA: MGT 419 MGT 415 MGT 413

493*. Field Studies

Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6

R: Seniors Management Approval of

Department Planned program of observation, study, and work in selected business firms, to supplement classroom study contributing to total overall educational experience. Independent research on special topics in Management. QA: MGT 468

800*. Materials and Logistics Management

Fall, Spring. 3(3-0)
Interdepartmental with the
Department(s) of Marketing and
Transportation Administration. R: Graduate Business

Fundamentals of materials and logistics management, emphasizing the strategic impact of the transforma-tion process in a global economy. Topics: quality, inventory mgmt., logistics strategy, customer service, international procurement, mgmt of technology. QA: MGT 800

MANAGEMENT

Materials Management: Tactical & Strategic Perspective (MLM) 801*.

Fall, Spring. 3(3-0) Interdepartmental with the Department(s) of Marketing and Transportation Administration. P: MGT 800 R: Graduate Business

Integration of procurement and operations management activities for competitive advantage. Strategic/tactical approaches to customer requirements, supply chain mgmt, procurement, process assessment, quality, mfg planning/control, and mgmt of technology. QP: MGT 800

QA: MGT 803 MGT 821

802*. Procurement/Sourcing Strategy Fall, Spring. 3(3-0) Interdepartmental with the

Department(s) of Marketing and Transportation Administration.
P: MGT 800 R: Graduate Business

Procurement/sourcing strategy development processes. Specific sourcing strategies and applications. Negotiation planning and execution. QP: MGT 800 QA: MGT 803 MGT 815

803*. Operations Management Strategy (MLM)

(MLM)
Fall. 3(3-0) Interdepartmental with
the Department(s) of Marketing and
Transportation Administration.
P: MGT 800 and MGT 801 R: Graduate

Rusiness

Advanced study of issues in operations management, including quality, management of technology, group technology, computer integrated manufacturing and Just-In-Time manufacturing.

QP: MGT 800 QA: MGT 801

806*. Organizational Behavior and the

Management of People Fall, Spring. 3(3-0) R. Graduate Business

Micro and macro models of organizational behavior applied to the management of organizational process es and design. Topics include: motivation, leadership, structural design, and workforce diversity. QA: MGT 806

810*. Human Resources Management

Fall, Spring. 3(3-0)
P: MGT 806 or concurrently R: Graduate Business & programs for which MGT 810 is a catalogue electiv

Design, administration, and evaluation of human resources functions; job analysis, human resource planning, staffing, training, performance appraisal, career development, labor relations, safety and health programs, and international human resource mgmt.

QP: MGT 806 CONCUR QA: MGT 810

811*. Organizational Staffing

Spring. 3(3-0)
P: MGT 806; MGT 810 or concurrently

R: Graduate Business

Scientific, legal and administrative issues associated with the selection, placement and promotion of individuals in organizations. Topics include job analysis, recruitment, testing, interviewing, performance appraisal, and affirmative action.

QP: MGT 806 MGT 8100RCONCUR QA: MGT 811

812*. Compensation and Reward Systems Fall. 3(3-0)

P: MGT 810 or concurrently R: Graduate

Business

Designing compensation systems; job evaluation, internal and external equity, pay-for-performance plans, financial incentives, motivation, wage/salary surveys, benefits, benefits administration. QP: MGT 810 CONCUR

Human Resource Training and 8134. Individual Development

Spring. 3(3-0)
P: MGT 810 R: Graduate Business & programs for which MGT 813 is a catalogue elect. Training and development of personnel at all levels of the business enterprise; planning, implementing and evaluating training programs; career stages and career planning; matching individual and organizational develop needs.

QP: MGT 810 QA: MGT 826

815*. Special Topics in Human Resource Management

Spring of even-numbered years. 3(3-0) P: MGT 806; MGT 810 or concurrently

R: Graduate Business Master's seminar on topics of interest to specialists in human resource management such as: advanced organizational behavior, organizational theory and design, labor relations, organizational development. QP: MGT 806 ANDMGT 810CONCUR

2.234 Decision Support Models

Fall, Spring. 3(3-0) R: Graduate Business

Development and application of analytical models to support decision making. Topics include: multiple regression; linear optimization; decisions under uncertainty; forecasting. QA: MGT 833

834*.

Optimization Models I
Fall of odd-numbered years. 3(3-0) P: MGT 833 or prior exposure to linear programming R: Graduate

Introduction to linear optimization models and algorithms. Theory of linear programming. Simplex algorithm and variations. Duality theory and sensitivity analysis. Linear programs with special struc-

QP: MGT 833 QA: MGT 834

835*. Optimization Models II

Spring of even-numbered years. 3(3-0) P: MGT 834 R: Graduate

Advanced optimization techniques. Network and integer programming models and algorithms. Dynamic programming. Analysis of computational complexity. Heuristic procedures. QA: MGT 835 OP: MGT 834

837 Introduction to Computer Simulation

Fall of even-numbered years. 3(3-0) P: STT 442 or equivalent R: Graduate

Discrete computer simulation and its use in research and planning. Types of simulation approaches, use of computer simulation languages, design of simulation experiments and analysis of the resulting data. Internal mechanics of simulation programs.

QP: STT 443 QA: MGT 837

838*. Design and Analysis of Statistical Experiments

Spring of odd-numbered years. 3(3-0)
P: STT 442 or COM 905 R: Graduate
Basic experimental design. Non-parametric and
multivariate methods. Elementary sampling theory. Response surface methodology. Data analysis using BMD and SPSS.

QP: COM 905 ORSTT 443 QA: MGT 838

860*. Principles and Cases in Strategic Management

Spring. 3(3-0) R: Graduate Business

Principles of strategic management applied to contemporary functional, business unit, and corporate problems. Strategic positioning, strategy formulation and strategy implementation. Cases drawn from industrial and service sectors. QA: MGT 860

870*.

Strategic Management Fall, Spring. 3(3-0) R: Masters Business MBA Second Year

Status in MBA program
Determination (general manager's perspective) of the strategic direction of the firm and management of strategic processes in the firm. Integration of environment factors and organizational functions in the analysis/solution of strategic mgmt problems.

QP: MTA 805FI 889 QA: MGT 807

890* Special Problems

Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits.

R: Graduate Business Approval of depart-

ment Independent study of special topics in management QA: MGT 890

906*. Seminar in Organizational Research Methods

Spring, 3(3-0) R: Ph.D. students

Methods for scientific research in the areas of organizational behavior, personnel and organizational theory. Theory building, hypothesis formation and testing, reliability theory, construct validity, external validity, research design. QA: MGT 906

907*. Seminar in Organizational Behavior

Fall of even-numbered years. 3(3-0) R: Ph.D. students

Directed readings on the behavior of individuals within organizations, theory and empirical research on perception, decision-making, work motivation, work attitudes, leadership and group dynamics. QA: MGT 907

Seminar in Organizational Theory Fall of odd-numbered years. 3(3-0) P: MGT 906 R: Ph.D. students 908*.

Formal organizations viewed as rational, natural and open systems. Survey of contemporary theory and empirical research concerning the nature and functioning of formal organizations. QP: MGT 906 QA: MGT 908

909*. Seminar in Human Resource Management

Spring of odd-numbered years. 3(3-0) R: Ph.D. students

Research in human resource management. Job analysis, personnel selection, training, incentive systems are covered with emphasis on classic and current empirical research. QA: MGT 911

910*. Seminar in Strategic Management

Fall of even-numbered years. 3(3-0)
R: Ph.D. students
Recent research literature in Strategic Management is reviewed. Topics include recent developments in strategic types, identification of strategic groups, strategy formulation, implementation, and decision making making. QA: MGT 912

9124. Special Topics Research Seminar Spring of even-numbered years. 3(3-0) P: MGT 906 R: Ph.D. students

Research in timely and specializedd topics in the area

of organizational behavior, organization theory, human research management, organizational policy and strategy. *QP: MGT 906* QA: MGT 912

Procurement and Sourcing Theory 918*. Fall of even-numbered years. 3(3-0) R: Ph.D. students

Development of procurement/sourcing concepts in theory. Theoretical models explaining procurement/sourcing strategy. Development of frameworks to guide research. QP: MGT 801

MANAGEMENT

919*. Procurement and Sourcing Management Strategy

Spring of odd-numbered years. 3(3-0)
P: MGT 918 R: Ph.D. students
Procurement/sourcing management concepts and
underlying theory. Complex management issues
affecting the contribution of the function/process to competitiveness of the firm.

920*. Seminar in Manufacturing

Fall of even-numbered years. 3(3-0) P: MGT 801 and MGT 803 R: Ph.D.

students Seminar on research in manufacturing strategy. Quality, technology, flexibility, innovation, and theory building in manufacturing strategy QP: MGT 801 MGT 821 QA: M QA: MGT 920

Seminar in Inventory Management Fall of odd-numbered years. 3(3-0) P: MGT 801 and MGT 803 R: Doctoral 9214.

Business Research literature in inventory management. Classical inventory control models, just-in-time, multi-echelon inventory control, and forecasting.

QA: MGT 921 QP: MGT 801 MGT 821 922*. Seminar in Production Planning & Scheduling

Spring of even-numbered years. 3(3-0) P: MGT 801, MGT 803, MGT 834 R: Ph.D.

Business Research literature in Production Planning and Scheduling. Aggregate and disaggregate planning, master scheduling, material requirements planning, lot-sizing, short-term capacity planning, and schedul-QP: MGT 801 MGT 821MGT 834 QA: MGT 922

Topics in Operations Management Spring of odd-numbered years. 3(3-0) P: MGT 801, MGT 803 R: Doctoral Busi-923*.

nessCurrent research in the field of operations management. Topics will vary in order to allow the course to focus on current issues. QP: MGT 801 MGT 821 QA: MGT 923

999* Doctoral Dissertation Research Fall, Spring, Summer. 1 to 24 credits. May reenroll for a maximum of 99

R: Ph.D. Business Management

QA: MGT 999

MARKETING AND TRANSPORTATION ADMINISTRATION

MTA

300*

Managerial Marketing Fall, Spring, Summer. 3(3-0) P: EC 201 or EC 251H; ACC 201 or ACC 230 or ACC 251H. R: Open only to juniors and seniors in Business and in other programs that list MTA 300 as a catalog requirement.

Analysis of and strategic integration of buyer behavior, segmentation, positioning, demand analysis, information, pricing, promotion, channels, product policies, and ethics in consumer, reseller, industrial, and service markets.

QP: EC 201 OREC 251HACC 201OR QA: MTA 300

302*. Consumer and Organizational Buyer Behavior

Fall, Spring, Summer. 3(3-0)
P: MTA 300. R: Open only to the juniors and seniors in the College of Business.

Application of consumer behavior principles to customer satisfaction, market planning, and marketing mix decisions. Ethical, diversity, and international

QP: MTA 300

QA: MTA 302

310*. International and Comparative Dimensions of Business

Fall, Spring, Summer. 3(3-0)
P: EC 202 or EC 251H; MGT 302 or concurrently, MTA 300 or concurrently. R: Open only to juniors and seniors in the College of Business, and in other programs that list MTA 310 as a catalog requirement.

International and cross-cultural study of business decisions, enterprises, markets, and institutions. Globalization of industries and firm competitiveness. International business transactions and entry strate-

gies. *QP: MTA 300 EC 2020REC 251HMGT 302* QA: MTA 301

317*. Quantitative Business Research

Fall, Spring, Summer. 3(3-0) Interdepartmental with the Department(s) of Statistics and

P: STT 315 R: Juniors and Seniors Busi-

Application of statistical techniques including fore-casting, to business decision making. Included are applications of linear regression and correlation, analysis of variance, selected non-parametric tests, time series, and index numbers. QP: STT 315 ORSTT 2010RSTT 421 QA: MTA 317

319*. Marketing Research

Fall, Spring. 3(3-0)
P: MTA 300, STT 315. R: Open only to juniors and seniors in the College of Business. Research methods designed to obtain information for marketing decisions. Research design, data collection, and interpretation of information to provide a customer orientátion.

QP: MTA 300 MTA 317 QA: MTA 319

Food Marketing Management Spring. 3(3-0) Interdepartmental with the Department(s) of Agricultural Economics.

P: FSM 200 or MTA 300 R: Juniors and Seniors Busines & programs for which MTA 335 is catalog requirement

Management decision-making in food industry organizations (processors, wholesalers, retailers). Topics: marketing and sales in response to customer and consumer needs, distribution, and merchandising systems in domestic and international contexts.

QP: MTA 300 ORFSM 200 QA: MTA 335

345*. Logistics Management

Spring. 3(3-0) Interdepartmental with the Department(s) of Management. P: MGT 303 R: Juniors and Seniors

Business

Analysis of the activities and decisions necessary to plan, implement, and control private and public physical distribution and transportation channel systems. Emphasis on physical, human, informational, and organizational system components. QP: MGT 303 ORMTA 301 QA QA: MTA 345

351*.

Retail Management Fall, Spring, Summer. 3(3-0) P: MTA 300. R: Open only to juniors and seniors in the College of Business and in other pro-grams that list MTA 351 as a catalog requirement. Domestic and international retailing structure, environment, and development. Managerial strategy.
Locational, purchasing, organizational, personnel and
promotional techniques. Retail budgeting and control. Social and ethical considerations. QP: MTA 300 QA: MTA 351

400H*. Honors Work

Fall, Spring. 1 to 3 credits. May reenroll for a maximum of 12 credits. R: Juniors and Seniors Honors Permis-

sion of the Department

Investigates models, concepts, and research findings of particular significance to effective decision making in administration of marketing and transportation **QA: МТА 400Н**

Personal Selling and Sales 413*.

Management
Fall. 3(3-0)
P: MTA 302 R: Juniors and Seniors Busi-

Planning, implementing, and controlling the firm's personal selling function. Analysis of sales territories; mgmt of recruitment, selection, training, and motiva-tion of sales personnel; evaluation of sales perfor-mance. Diversity and ethical issues. QP: MTA 302 QA: MTA 413

415* International Marketing

Management
Fall, Spring. 3(3-0)
P: MTA 300, MTA 310. R: Open only to juniors and seniors in the College of Business. Marketing decisions, strategies, and operations of the firm involved in international business. Researching global market opportunities and formulating market entry strategies. Developing and implementing the international marketing program. QP: MTA 300 ANDMTA 3010REC 428 QA: MTA 415

439*. Food Business Analysis and

Strategic Planning
Fall. 3(3-0) Interdepartmental with the Department(s) of Agricultural Economics.

P: MTA 335 or FSM 335; STT 201 or STT 200 or STT 315 R: Juniors and Seniors Business and programs which MTA 439 is catalog requirement Principles and techniques of business analysis and planning applied to food firms. Topics developed in written projects: food trend forecasts, market potential, competition and cost analyses, business and strategic planning. QP: MTA 335 STT 201STT 315 QA: MTA 439

442*. Traffic and Transportation Management

Fall. 3(3-0) Interdepartmental with the Department(s) of Management, P: MGT 304 and MTA 345 R: Juniors and

Seniors Business Micro analysis of purchasing and operating transpor-Micro analysis of purchasing and operating transportation services including carrier selection, pricing/rates, negotiation. Managing the transp. function including consolidation, fleet mgmt, transp. strategies; international and intermodal distribution. QP: MGT 303 MTA 341MTA 345 QA: MTA 442

Physical Distribution Operations Spring. 3(3-0) Interdepartmental with the Department(s) of Management. P: MGT 304 and MTA 345 R: Juniors and 446*

Seniors Business Micro analysis of distribution operations from a firm and facility perspective. Emphasis on customer service strategy, information and order processing systems, warehouse design and operations, material handling systems, and assessment of performance. QP: MGT 303 MTA 341MTA 345 QA: MTA 446