DEPARTMENT OF MANAGEMENT

Sonny Ariss, Chair

Degrees Offered

- EMBA Executive Management (http://utoledo-public.courseleaf.com/graduate/business-innovation/departments-schools/department-management/emba)
- MBA Administration (http://utoledo-public.courseleaf.com/graduate/business-innovation/departments-schools/department-management/mba-administration)
- MBA Leadership (http://utoledo-public.courseleaf.com/graduate/business-innovation/departments-schools/department-management/mba-leadership)
- MBA Management (http://utoledo-public.courseleaf.com/graduate/business-innovation/departments-schools/department-management/mba-management)
- Ph.D. in Manufacturing and Technology Management (Ph.D.) (http://utoledo-public.courseleaf.com/graduate/business-innovation/departments-schools/department-management/phd-manufacturing-technology-management)

BUAD 6100 Accounting For Decision Making
[3 credit hours (3, 0, 0)]
This course develops an appreciation for financial statements and their usefulness in making decisions. The nature of costs, opportunity costs, responsibility accounting, budgeting, cost allocations, absorption cost systems, activity based costing and standard costs are included.
Prerequisites: ACTG 1040 with a minimum grade of C and ACTG 1050 with a minimum grade of C or BUAD 2040 with a minimum grade of C and BUAD 2050 with a minimum grade of C or ACCT 5000 with a minimum grade of C
Term Offered: Spring, Summer, Fall

BUAD 6200 Financial Systems
[3 credit hours (3, 0, 0)]
The course reviews the analytical tools needed to solve a wide range of financial management issues. It concentrates on three major types of decisions in corporate finance: investment decisions, financing decisions, and payout decisions. Specific topics include stock and bond pricing, risk and returns, capital budgeting, leverage and capital structure choice, and dividend policy.
Prerequisites: FINA 5310 with a minimum grade of C or BUAD 2040 with a minimum grade of C and BUAD 2050 with a minimum grade of C or ACTG 1040 with a minimum grade of C and ACTG 1050 with a minimum grade of C
Term Offered: Spring, Summer, Fall

BUAD 6300 Strategic Marketing And Analysis
[3 credit hours (3, 0, 0)]
This course examines the fundamentals of marketing analysis and strategy. The purpose is to strengthen your basic understanding of marketing strategy and the management philosophy of being market-driven. Being market-driven means the organization's decision-making is driven by customer information, market knowledge, competitive intelligence, an understanding of how the organization creates and delivers value, and a clear set of strategies that differentiate the organization and give it a competitive advantage.
Prerequisites: MKTG 5410 with a minimum grade of C or BUAD 3010 with a minimum grade of C
Term Offered: Spring, Summer, Fall

BUAD 6400 Results-Based Management
[3 credit hours (3, 0, 0)]
This course is dedicated to understanding human behavior in organizational settings and how organizations can impact and support results-based management. The intent of this course is to provide an understanding of alternative managerial approaches to particular issues, and to introduce ways to analyze the various organizational and social costs and benefits typically associated with any given approach. Case analyses and team projects are core elements of this course.
Term Offered: Spring, Summer, Fall

BUAD 6500 International Business
[3 credit hours (3, 0, 0)]
This course focuses on an understanding of the process and controversies underlying globalization, as well as its supporting theories and strategic challenges encountered when firms "go global" or operate in the global context.
Term Offered: Spring, Summer, Fall

BUAD 6600 Supply Chain Management
[3 credit hours (3, 0, 0)]
This course presents an integrated approach to value chain management and analyzes key challenges, practices and trends concerning primary business functions and processes. The course also examines the strategic ramifications for the supply chain in an emerging digital economy.
Prerequisites: BUAD 3020 with a minimum grade of C or OPMT 5520 with a minimum grade of C or OSCM 5520 with a minimum grade of C
Term Offered: Spring, Summer, Fall

BUAD 6800 Information Technology And E-Business
[3 credit hours (3, 0, 0)]
This course covers the strategic role of information technology resources, e-commerce initiatives and e-business transformation for competitive advantage, managerial decision support, business process streamlining and inter-firm collaboration. Also covered are analysis of business models, exposure to data analysis tools, evaluation of information system architecture and resource requirements.
Term Offered: Spring, Summer, Fall
BUAD 6900 Strategic Management Capstone  
[3 credit hours (3, 0, 0)]  
This capstone course integrates business functions toward the strategic management of organizations or subunits thereof. Course pedagogy includes lectures, guest speakers, cases, experiential exercises field projects and simulations.  
**Prerequisites:** (BUAD 6300 with a minimum grade of C and BUAD 6200 with a minimum grade of C and BUAD 6100 with a minimum grade of C)  
**Corequisites:** BUAD 6600  
**Term Offered:** Spring, Summer, Fall  

BUAD 6920 Specialization Internship Opportunity  
[1-4 credit hours (0, 0, 1-4)]  
Receive practical business experience working in an organization, while meeting with other students and learning about their experiences.  
**Term Offered:** Spring, Fall  

BUAD 6980 Special Topics In Business Administration  
[1-4 credit hours (0, 0, 1-4)]  
Independent study to be arranged with the Director, M.B.A. program.  
**Term Offered:** Spring, Summer, Fall  

EMBA 5500 Analytic Foundation For Executives  
[3 credit hours (3, 0, 0)]  
This course provides managers with the analytical foundations in economics, computer skills and statistical methods. Internet exercises prior to class meetings provide the basis for continuous discussions of current economic events.  
**Term Offered:** Fall  

EMBA 6100 Global Competitive Challenge  
[3 credit hours (3, 0, 0)]  
An overview of the competitive challenge faced by firms in today’s global setting. Executives select nations or regions and industries to analyze in terms of the competitive challenge. Factors which helped the nations/regions to achieve competitive advantage will be studied to gain a better understanding of the competitive challenge.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Fall  

EMBA 6120 Cultural, Legal, & Operational Issues in Doing Business Abroad  
[3 credit hours (3, 0, 0)]  
This course develops the executive's appreciation, knowledge, and understanding of the different cultures and legal systems as they impact business operations in doing business in major foreign countries or regions, including emerging markets. The underpinning of cross-cultural literacy for global competitive advantage is emphasized.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Spring, Fall  

EMBA 6140 Accounting And Financial Foundations For Executives  
[3 credit hours (3, 0, 0)]  
This course gives an overview of the firm from a financial management perspective including financial decision making. Topics covered include the time value of money, stock and bond valuation, and capital budgeting decision rules.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Spring  

EMBA 6200 Personal Strategic Planning And Entrepreneurship  
[3 credit hours (3, 0, 0)]  
Executives assess their personal values, clarifying their personal goals and develop a career strategy. Identifying market opportunities and developing new businesses for today's technological and global environment are explored.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Fall  

EMBA 6210 Processes for Ethical Business Decisions  
[3 credit hours (3, 0, 0)]  
Introduces executives to specific analytical processes for identifying the ethical dilemmas frequently experienced in business, resolving them and then justifying the course of action selected from multiple ethical perspectives. These processes are essential for recognizing and understanding the ethical implications of complex and controversial problems in culturally diverse and competitive organizations. The course involves ongoing practice in ethical dilemma resolution in both group and individual formats involving various ethical scenarios.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Spring, Summer, Fall  

EMBA 6220 Accounting Systems For Operational And Strategic Management  
[3 credit hours (3, 0, 0)]  
Emphasizes the preparation and use of financial statements, accounting for international transactions and tax consequences of U.S. and international operatives. Managerial accounting and control systems are examined. Focuses on the tax consequences of selected transactions of both U.S. and international operations.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Fall  

EMBA 6230 Market-Driven Analysis And Strategy  
[3 credit hours (3, 0, 0)]  
This course focuses on what it means to be market-oriented and provides individuals with a basic understanding of the market-based management practices needed to create superior customer value. Being 'market-driven' means the organization’s decision-making is also driven by customer information, market knowledge, competitive intelligence, an understanding of how the organization creates and delivers value, and a clear set of strategies that differentiate the organization and make give it a competitive advantage.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Spring  

EMBA 6240 Entrepreneurial Financial Management  
[3 credit hours (3, 0, 0)]  
Studies the management of international financial activities, including financial planning and forecasting, capital budgeting and leasing, capital structure, working capital management, sources of funds, business valuation and risk management.  
**Prerequisites:** EMBA 5500 with a minimum grade of D-  
**Term Offered:** Spring, Summer
EMBA 6250 Leadership And Performance Management
[3 credit hours (3, 0, 0)]
Executives learn to be visionary leaders by understanding how change, culture and strategy link to the vision. This course also focuses on employee motivation, development and empowerment, culminating in insights on how to manage performance in order to achieve the company's mission.
Prerequisites: EMBA 5500 with a minimum grade of D-
Term Offered: Fall

EMBA 6290 Strategic Management In A Global Environment
[3 credit hours (3, 0, 0)]
The goal of the capstone course is for each executive to finish an integrated business plan creating value for his or her sponsoring firm. Strategic planning tools are studied.
Prerequisites: EMBA 5500 with a minimum grade of D-
Term Offered: Fall

EMBA 6300 Global Technology Management
[3 credit hours (3, 0, 0)]
This course focuses on the strategic and technical challenges facing executives who want to take advantage of today's existing and emerging technological developments to enhance business opportunities. Best practices are reviewed and the focus is on how executives can manage technology across functions to best achieve competitive advantage.
Prerequisites: EMBA 5500 with a minimum grade of D-
Term Offered: Spring, Summer

EMBA 6310 Managing Global Supply Chains
[3 credit hours (3, 0, 0)]
Examines how e-business models, information technology and globalization have changed supply chain design and management. Effective information management for decision making is explored.
Prerequisites: EMBA 5500 with a minimum grade of D-
Term Offered: Spring, Summer

EMBA 6320 Product Development
[3 credit hours (3, 0, 0)]
This course is designed to provide an understanding of how new products/services and e-business initiatives are developed and managed and explores the tools and skills needed to manage these processes.
Prerequisites: EMBA 5500 with a minimum grade of D-
Term Offered: Spring, Summer, Fall

EMBA 6370 Global/E-Business Field Trip
[2 credit hours (0, 0, 2)]
This experiential international field trip facilitates student learning about the processes of setting expectations, monitoring performance, coaching and developing employees, and assessing and rewarding good performance in rapidly changing organizations.
Prerequisites: HURM 6700 with a minimum grade of C
Term Offered: Spring, Summer, Fall

EMBA 6980 Special Topics in Business
[1-3 credit hours (1-3, 0, 0)]
Analysis of current issues in business, specialized industries, or specific markets. Syllabus determined jointly by EMBA office and faculty as special topics are identified.

EMBA 6990 Independent Study
[3 credit hours (3, 0, 0)]
Independent research report on a business topics of interest to the student and faculty member. Students must work with a professor on this project. Permission of Instructor required.

HURM 6700 Human Resource Management
[3 credit hours (3, 0, 0)]
A survey of the functions and current trends in human resources management. Special emphasis on research methods, tools and techniques for in-depth understanding of problems and challenges faced by for-profit and not-for-profit organizations.
Term Offered: Summer, Fall

HURM 6710 Employment And Labor Law
[3 credit hours (0, 0, 3)]
This course introduces the objectives, activities and practices involved in employment and labor law. It is designed for those pursuing careers in human resources or managers wishing to understand their responsibilities in this area.
Term Offered: Fall

HURM 6720 Advanced Negotiation and Conflict Management
[3 credit hours (0, 0, 3)]
Course is designed to develop advanced skills in all phases of negotiation and conflict management strategies and techniques. The course is based on a series of simulated negotiations in a variety of contexts.
Term Offered: Spring, Fall

HURM 6730 Performance Management
[3 credit hours (0, 0, 3)]
This course is designed to provide practical working knowledge of the processes of setting expectations, monitoring performance, coaching and developing employees, and assessing and rewarding good performance in rapidly changing organizations.
Term Offered: Spring, Fall

HURM 6750 Current Topics In Human Resource Management
[3 credit hours (0, 0, 3)]
This course is designed to provide students with current viewpoints, challenges, practices and theories in human resource management. Conducted in a seminar format, the course will emphasize different aspects of HR management each time it is offered.
Prerequisites: HURM 6700 with a minimum grade of C
Term Offered: Spring, Summer, Fall

HURM 6760 Talent Management
[3 credit hours (3, 0, 0)]
Talent management uses interconnected human resources to provide organizational benefits though developing a strategic approach to managing core talent encompassing recruiting, onboarding, training, performance management, and succession planning.
Prerequisites: HURM 6700 with a minimum grade of C
Term Offered: Spring, Fall

HURM 6800 Human Resource Information Systems
[3 credit hours (3, 0, 0)]
Course covers issues and techniques related to human resource information systems, human resource analytics, performance metrics, and the integration of technology to create and sustain effective HRM practices that contribute to the effectiveness of organizations.
Prerequisites: HURM 6700 with a minimum grade of C
HURM 8700 Human Resource Management
[3 credit hours (3, 0, 0)]
Introduces the objectives, activities, and practices involved in human resource management. Designed for both those pursuing careers in human resources or managers who wish to supplement their skills in this area. (Prerequisite: None)

HURM 8710 Employment and Labor Law
[3 credit hours (3, 0, 0)]
Introduces the objectives, activities, and practices involved in employment and labor law. Designed for those pursuing careers in human resources or managers wishing to understand their responsibilities in this area.

HURM 8720 Employer-Employee Relations
[3 credit hours (3, 0, 0)]
Course is designed to develop advanced skills in all phases of negotiation and conflict management strategies and techniques. The course is based on a series of simulated negotiations in a variety of contexts.

HURM 8730 Performance Management
[3 credit hours (3, 0, 0)]
Course is designed to provide practical working knowledge of the processes of setting expectations, monitoring performance, coaching and developing employees, and assessing and rewarding good performance in rapidly changing organizations.
Prerequisites: HURM 6700 with a minimum grade of D- and HURM 8700 with a minimum grade of D-

HURM 8740 Human Resource Strategy and Metrics
[3 credit hours (3, 0, 0)]
Focuses on the integration of human resource strategies with the strategies of the firm. Students will learn how to assess and measure human resource processes, programs, and outcomes.
Prerequisites: HURM 6700 with a minimum grade of D- and HURM 8700 with a minimum grade of D-

HURM 8750 Current Topics in Human Resource Management
[3 credit hours (3, 0, 0)]
Course is designed to provide students with current viewpoints, challenges, practices, and theories in human resource management. Conducted in a seminar format, the course will emphasize different aspects of HR management each time it is offered.
Prerequisites: HURM 6700 with a minimum grade of D- and HURM 8700 with a minimum grade of D-
Term Offered: Spring

HURM 8760 Recruitment and Retention
[3 credit hours (0, 0, 3)]
Talent management uses interconnected human resources to provide organizational benefits though developing a strategic approach to managing core talent encompassing recruiting, onboarding, training, performance management, and succession planning.
Prerequisites: HURM 8700 with a minimum grade of D-
Term Offered: Fall

MFGM 8480 Management of Technology
[3 credit hours (3, 0, 0)]
This seminar covers conceptual framework and relevant research studies on technology management. The literature from Technology Management as it relates to the management of product, manufacturing and supply chain technologies will be discussed.
Term Offered: Spring, Fall

MFGM 8490 Supply Chain and E-Business Issues in Manufacturing
[3 credit hours (3, 0, 0)]
This seminar focuses broadly on key issues relating effective management of product, information and financial flows in supply chains. It also relates to E-business practices, and their impact on supply chain design and management.
Term Offered: Spring

MFGM 8510 Supply Chain and Technology Management Analytics
[3 credit hours (3, 0, 0)]
This seminar focuses on advanced analytical methods and applications in supply chain and technology management. The first part of the course focuses on mathematical modeling and algorithms in supply chain management, while the second part focuses on how to use data to develop business insights and predictive capabilities.

MFGM 8530 Management Science
[3 credit hours (3, 0, 0)]
This course is an applied study of deterministic and stochastic methods of management science. A variety of applications with emphasis on manufacturing and technology management are introduced.
Term Offered: Spring

MFGM 8540 Advanced Management Science
[3 credit hours (0, 0, 3)]
The course introduces students to advanced theory, algorithms, and applications of management science techniques, including dynamic programming, nonlinear programming, game theory, etc. The methods have applications to supply chain management, manufacturing, transportation, marketing, and economics.

MFGM 8560 Stochastic Modeling
[3 credit hours (0, 0, 3)]
This course covers basic principles and methods in applied probability and stochastic modeling. The topics covered in this course include advanced probability theory, stochastic processes, Markov chains, Markov Decision Processes, queuing theory, computer simulation, etc. Applications of these techniques in supply chain management, manufacturing, transportation, and finance are introduced.

MFGM 8580 Qualitative Research Methodology
[3 credit hours (0, 0, 3)]
This course explores the use of qualitative methods within the fields of Information Systems and Operations Management. The seminar discusses the different qualitative methods that include Case Study, Ethnography, and Grounded Theory. In addition, we examine the differences between interpretive and positivist approaches using qualitative methods. This course covers research design and the various techniques in analyzing qualitative data. The course includes a discussion about mitigating bias in the areas of data collection and analysis.
MFGM 8670 Special Topics in Research Methods
[3 credit hours (0, 0, 3)]
This course focuses on contemporary research methods within the fields of manufacturing and technology management, including Operations and Supply Chain Management, Information Systems, etc. The specific topic on contemporary research methods will change each time.

MFGM 8810 Seminar/Colloquia
[1 credit hour (0, 0, 1)]
One credit hour requirement of these courses will be met by requiring the students to attend a reasonable number (10) of research seminars and colloquia in and outside the college, doctoral dissertation proposal and defenses at the college, etc., during one academic year.
Term Offered: Spring, Fall

MFGM 8840 Manufacturing Strategy
[4 credit hours (4, 0, 0)]
The seminar examines the theory and research related to the formulation and implementation of manufacturing strategy including the strategic planning process and techniques for industry and competitive analysis.
Prerequisites: MGMT 5110 with a minimum grade of D- or ORGD 7110 with a minimum grade of D-

MFGM 8850 Readings And Research In Manufacturing Management
[1-12 credit hours (0, 0, 0-1)]
This individually designed course will provide advanced readings in areas needed by a doctoral student.
Term Offered: Spring, Summer, Fall

MFGM 8860 Advanced Statistics
[3 credit hours (3, 0, 0)]
This course discusses multivariate data analysis. Topics include: principal components analysis, factor analysis, multidimensional scaling, cluster analysis, multiple regression analysis and multivariate analysis of variance. Statistical software packages are used.
Prerequisites: OPMT 5510 with a minimum grade of D-

MFGM 8870 Seminar in Statistics/ Research Method
[3 credit hours (3, 0, 0)]
This is an advanced second course in Statistical methods or management science or research methods. This course is designed for individual needs of the student to provide more depth in the research method as required.
Term Offered: Summer

MFGM 8880 Research Methods-Theory Bldg
[3 credit hours (3, 0, 0)]
The course seeks to frame and discuss key issues that arise as social scientists conduct theoretically-relevant empirical research. In the course, the theory building in manufacturing management as well as research process and the literature, tools and techniques associated with each phase of the process will be introduced.
Term Offered: Fall

MFGM 8890 Advanced Manufacturing Systems
[3 credit hours (3, 0, 0)]
This seminar provides an understanding of the design and management of manufacturing systems. This begins with an understanding of how manufacturing has evolved over time, continues with descriptions of current trends and ideas in manufacturing system design and concludes with discussion of future changes.
Term Offered: Spring, Summer, Fall

MFGM 8900 Field Research
[1-8 credit hours (0, 0, 0-4)]
This course provides students with the opportunity to experience a realistic manufacturing problem and to develop approaches to solving that problem under the supervision of a faculty member.
Term Offered: Spring, Fall

MFGM 8960 Dissertation
[1-8 credit hours (0, 0, 0-8)]

MFGM 8980 Special Topics Seminar
[3 credit hours (3, 0, 0)]
This seminar focuses on current topics relating to manufacturing and technology management. The specific seminar topic will change each semester.
Term Offered: Spring, Fall

MGMT 5110 Introduction To Management
[3 credit hours (3, 0, 0)]
Course is designed to provide a comprehensive, accurate and up-to-date picture of the field of management. This course focuses on organizational behavior (individual and small group) and organizational theory (large group and total organization). Also included is a review of the key functions of management; (1) planning, (2) organizing, (3) leading, (4) staffing and (5) controlling.
Term Offered: Summer

MGMT 6100 Leading Through Ethical Decision-Making
[3 credit hours (3, 0, 0)]
This course seeks to challenge students to discover their core values and how they shape beliefs and actions. Students will learn how to apply four theoretical perspectives to issues facing them as business persons.
Term Offered: Spring, Fall

MGMT 6150 Leading and Developing Yourself
[3 credit hours (3, 0, 0)]
The course explores how one's own leadership competencies can be developed and applied most effectively in a variety of situations. Contemporary theories and trends in leadership and leadership development are examined, and opportunities to improve leadership capabilities are provided. Self-assessments, as well as written and video cases, are used extensively.
Term Offered: Fall

MGMT 6160 Leading With Power and Influence
[3 credit hours (3, 0, 0)]
Students will develop an understanding of the strategic use of power and influence to exercise leadership in organizations. Skill development in the diagnosis and practical use of power and influence to mobilize action, to negotiate, and to resolve conflicts will be emphasized.
Term Offered: Spring, Fall

MGMT 6190 Leading change and Organizational Improvement
[3 credit hours (3, 0, 0)]
Students will learn and apply the key theories and practices of change management and organizational development processes.
Term Offered: Spring
MGMT 6930 Independent Research
[1-3 credit hours (0, 0, 0-3)]
Independent research opportunities are provided to advanced students for pursuing topics in depth under the faculty supervision.
Term Offered: Spring, Summer, Fall

PUBH 5020 Occupational Health
[3 credit hours (3, 0, 0)]
Hazardous materials, mathematics, anatomy, and physiology; hazard recognition for harmful agents; methods, standards, recommendations, and instruments used to evaluate hazards; techniques for hazard control; occupational health programs and regulations; communication and ethics.
Term Offered: Fall

PUBH 5060 Occupational Safety
[3 credit hours (3, 0, 0)]
Safety and health organization, administration, management, services; controlling unsafe conditions/acts relation to construction and buildings, machines, materials handling, pressure vessels, electrical equipment; emergency procedures; communication effectiveness and ethical guidelines/standards.
Term Offered: Fall

PUBH 5160 Environmental Health
[3 credit hours (3, 0, 0)]
Scientific, regulatory and management principles applicable to human disease associated with food, water, air and soil contamination. Focuses on biology and chemistry of contamination and transformation, exposure monitoring and contaminant control.
Term Offered: Fall

PUBH 5260 Haz Mat and Emerg Response
[3 credit hours (3, 0, 0)]
(terrorism) Disaster preparedness and emergency response; and, personal protective equipment and site assessment/monitoring. This course requires the student to wear personal protective equipment, perform hands on monitoring and sampling, and assess and respond to in class response scenarios.
Term Offered: Spring, Summer, Fall

PUBH 5310 Chemical Agents
[3 credit hours (3, 0, 0)]
Scientific principles and practices applicable to the qualitative and quantitative evaluation of chemical agents associated with human diseases resulting from various environmental exposures. Content includes methods to assess exposures in the workplace.
Term Offered: Spring, Fall

PUBH 5410 Hazard Control
[3 credit hours (0, 0, 0)]
Ventilation; control of indoor and outdoor (ambient) air pollution; operation of dilution and location exhaust ventilation systems; design of ventilation systems; respiratory and other personal protective equipment and programs available or commonly used in the workplace; communication and ethics.
Term Offered: Spring

PUBH 5520 Biological Agents
[3 credit hours (3, 0, 0)]
Scientific principles and practices applicable to the pathogenicity, evaluation and control of microbial agents, parasitic agents, and some biological vectors associated with human diseases resulting from various environmental exposures. Content includes normal/abnormal human physiology relative to exposure, exposure assessment, and exposure control.
Term Offered: Summer, Fall

PUBH 5620 Physical Agents
[3 credit hours (0, 0, 0)]
Monitor exposure to physical agents; assessment of exposure to physical agents; appropriate exposure control methods of physical agents; professional reports; laws, regulations, recommendations, standards, services related to physical agents; communication and ethics.
Term Offered: Spring

PUBH 5700 Risk Assessment
[3 credit hours (3, 0, 0)]
Human health risk assessment including hazard identification, dos-response assessment, human exposure assessment, and risk characterization are discussed. Emphasis on practice of risk assessment, management, and communication relative to public, environmental, and occupational health and safety.
Term Offered: Summer, Fall

PUBH 5720 Exposure Assessment Strategies
[3 credit hours (3, 0, 0)]
Exposure assessment is an integral part of occupational and environmental health. This course will focus on the statistics and methods needed to assess exposures in the workplace.
Prerequisites: PUBH 6000 with a minimum grade of D- or PUBH 600 with a minimum grade of D-
Term Offered: Spring

PUBH 5800 Biostatistics
[3 credit hours (3, 0, 0)]
An introduction to descriptive statistics including measurement of central tendency, dispersion, relative position, correlation, and regression. Inferential statistical theory, selected nonparametric methods, application of computers, and also occupational exposure assessment will be discussed.
Term Offered: Spring, Fall

PUBH 6010 Public Health Epidemiology
[3 credit hours (3, 0, 3)]
The course will present principles of the epidemiology method including problem solving. Various study designs will be discussed, including prospective and retrospective studies, analytic, and experimental methods.
Term Offered: Spring, Fall

PUBH 6020 Management and Leadership in Public Health
[3 credit hours (3, 0, 0)]
An introduction to the leadership and management principles necessary for the delivery of public health programs, intervention, and outreach, including fostering collaboration, effective communication, consensus building, negotiation, cultural awareness, budget and resource management, evaluation, coalition building, vision creation, mediation, empowering others, and guiding decision making.
Term Offered: Spring, Fall
PUBH 6030 Advanced Epidemiology
[3 credit hours (3, 0, 0)]
This course covers principles and methods of epidemiology in depth. The topics include causal inference, risk and effect, confounding, interaction, randomization, and matching. Special emphasis is given to design and interpretation of epidemiological studies.
Term Offered: Summer

PUBH 6060 Advanced Biostatistics
[3 credit hours (3, 3, 0)]
Advanced statistical techniques with particular emphasis on problems in public health. Multiple regression, methods of analysis of variance, categorical data analysis including logistic regression, non parametric and survival analysis. Problems whose solution involves using a statistical program (e.g., SPSS).
Term Offered: Spring, Fall

PUBH 6070 Genetic Epidemiology
[3 credit hours (3, 0, 0)]
Introduces genetic epidemiology methods, principles of population genetics including linkage and association studies used in assessing familial aggregation, and transmission patterns for identifying the genetic basis of common diseases.
Prerequisites: (PUBH 6000 with a minimum grade of C or PUBH 8000 with a minimum grade of C) and (PUBH 6010 with a minimum grade of C or PUBH 8010 with a minimum grade of C) or (PUBH 600 with a minimum grade of C or PUBH 800 with a minimum grade of C) and (PUBH 601 with a minimum grade of C or PUBH 801 with a minimum grade of C)
Term Offered: Summer

PUBH 6080 Social Determinants of Health
[3 credit hours (3, 0, 0)]
Social determinants of health are social conditions, factors, and systems that place people from different socio-demographic and socioeconomic group (social class, gender, race/ethnicity, and place of birth) at differential risk of poor health and premature mortality. Mechanisms through which these factors are hypothesized to influence health, such as stress and access to health resources and constraints, will be discussed, as well as the ways in which these mechanisms can operate across the life course.
Term Offered: Spring, Fall

PUBH 6090 Issues in Public Health
[3 credit hours (3, 0, 0)]
Examination of various contemporary issues in public health. Includes social, economic, political, and community problems in the provision of health services, health manpower, and payment for health care.

PUBH 6100 Environ/Occup Epidemiology
[3 credit hours (0, 0, 0)]
The course focuses on the application of epidemiological techniques to the study of effects of occupational and environmental exposures. Prerequisite: PUBH600 and 601.

PUBH 6110 Categorical Data Analysis
[3 credit hours (3, 0, 0)]
This course introduces the theory and application of methods for categorical data, with emphasis on biomedical and public health applications. Topics include contingency tables, log-linear, logistic regression and Raush models, multivariate methods for matched pairs and longitudinal data. The methods are illustrated with SAS and/or SPSS, R.
Term Offered: Spring, Summer

PUBH 6120 Epidemiology Infectious Disease
[3 credit hours (3, 0, 0)]
Provides an overview of major infectious diseases affecting public health in the U.S. and worldwide; introducing the basic epidemiologic methods for surveillance and investigation of infectious disease outbreaks.
Term Offered: Spring, Fall

PUBH 6130 Molecular Epidemiology
[3 credit hours (3, 0, 0)]
The course focuses on the application of epidemiological techniques to the study of effects of occupational and environmental exposures.
Term Offered: Fall

PUBH 6150 Clinical Epidemiology
[3 credit hours (3, 0, 0)]
This course focuses on epidemiologic concepts and methods in clinical medicine. Topics include clinical measurements and outcomes, risk, prognostic factors, clinical diagnosis, study design, decision analysis, clinical research and meta-analysis.
Term Offered: Spring

PUBH 6160 Reproductive Epidemiology
[3 credit hours (3, 0, 0)]
Reproductive health issues from the pre-conception, prenatal delivery, and postnatal periods and emphasizes health issues affecting women, men, and infants. A focus on current research, controversial issues and methodological issues.
Prerequisites: PUBH 6010 with a minimum grade of D- or PUBH 601 with a minimum grade of D-
Term Offered: Spring

PUBH 6170 Molec and Genomic Epidemiology
[3 credit hours (3, 0, 0)]
Presents concepts and methods of molecular and genetic epidemiology relevant to the study of prevalent diseases in the population. Topics include biomarkers, polymorphism and gene-environment interaction. The evolution and function of the genomics and a synopsis of epidemiological design and analysis are included.

PUBH 6180 Cancer Epidemiology
[3 credit hours (0, 0, 0)]
Focuses on a number of cancers, including the most incident cancers in the United States. Provides a broad overview of cancer epidemiology and basic substantive knowledge regarding many cancers and their risk factors, prevention, and biology and pathogenesis.
Term Offered: Spring, Summer, Fall
PUBH 6190 Statistical Packages for Public Health
[3 credit hours (3, 0, 0)]
The purpose of this 3 credit course is to develop analysis skills using the SAS statistical package, SPSS, and R for students that already have a basic knowledge of biostatistics.
Prerequisites: PUBH 6000 with a minimum grade of D- or PUBH 8000 with a minimum grade of D-
Term Offered: Fall

PUBH 6200 Methods, Materials for PUBH
[3 credit hours (0, 0, 0)]
Introduces students to resource materials and methods appropriate for public health education. Students will use various mediums of instruction in direct application to public health programs.
Term Offered: Spring, Fall

PUBH 6250 Nutritional Epidemiology
[3 credit hours (0, 0, 0)]

PUBH 6300 Community Health Organization
[3 credit hours (0, 0, 0)]
Focuses on techniques to bring about change in a community's health status through assessment, public advocacy, coalition building, decision-making, planning, policy development, and political influence. Applications will be emphasized.
Term Offered: Spring

PUBH 6330 Public Health and Aging
[3 credit hours (0, 0, 0)]
Examines public health and aging issues in contemporary society. Introduces physical, cognitive and affective function from a public health perspective. Prevention and health promotion models are included.
Term Offered: Summer

PUBH 6410 Global Perspectives on Public Health and Disaster Preparedness
[3 credit hours (2, 1, 0)]
This course introduces the introductory healthcare learner (including but not limited to MD, MPH, PA, MSN, MSBS, OT, PT) to specific principles of global perspectives on disaster management and response. Covers epidemiology of various diseases and population health issues from a global and domestic perspective. Employs an all-hazards framework, providing essential skills to function in the event of a catastrophe. Guest speakers from healthcare disciplines who work internationally will present first-hand experiences in managing disasters.
Term Offered: Spring

PUBH 6420 Social Marketing in Health
[3 credit hours (3, 0, 0)]
The Centers for Disease Control and Prevention (CDC) identify social marketing as a practice allied with Health Education and Health Promotion. The CDC encourages programs to apply the principles of social marketing to health behavior change efforts in order to increase the effectiveness of interventions. Social marketing uses audience research to determine target audience segmentation into groups with common risk behaviors, motivations, and information channel preferences. Key audience segments are then reached with the mix of intervention strategies formed by the “4 Ps” of social marketing, namely product, price, place, and promotion. The final product is designed based on the needs and desires of the consumer and persuasive messages promoting behavior change are promoted to the target audience. Continuous evaluation and message revision allows for ongoing refinement on the basis of consumer feedback.
Term Offered: Spring

PUBH 6430 Community Mental Health
[3 credit hours (3, 0, 0)]
In this course, mental health is examined from a public health perspective with a focus on epidemiological, behavioral, sociological and cultural issues. Particular emphasis is placed on the prevention of mental illness, social responses to illness, as well as the social determinants of mental health. Mental health, mental health promotion and community mental health issues are analyzed at individual and population level.
Term Offered: Summer

PUBH 6460 Health Promotion Programs
[3 credit hours (3, 0, 0)]

PUBH 6500 Disaster Preparedness/Response
[3 credit hours (3, 0, 3)]
By means of synchronous, asynchronous, audiovisual, and simulation platforms, the learner will develop an in-depth knowledge concerning how the healthcare infrastructure of a community must plan for, respond to, and recover from a pandemic. The course is divided into four topic areas: 1) introduction; 2) preparedness; 3) response; and 4) recovery.
Term Offered: Spring

PUBH 6520 Public Health Nutrition
[3 credit hours (0, 0, 0)]

PUBH 6550 Chronic Disease Epidemiology
[3 credit hours (3, 0, 3)]
Epidemiology of selected chronic diseases and non-infectious conditions: cancer, cardiovascular diseases, musculoskeletal diseases and other chronic diseases. Emphasis on classification, rates, associations, etiology, prevention and control.
Prerequisites: PUBH 6010 with a minimum grade of C or PUBH 601 with a minimum grade of C
Term Offered: Spring, Summer, Fall
PUBH 6560 Interdisciplinary Crisis Management for Medical and Public Health Professionals
[3 credit hours (3, 0, 0)]
The purpose of this semester course is to introduce the interdisciplinary healthcare learner (including but not limited to MD, PA, MPH, MSN, OT and PT students) to specific principles of epidemiology and disaster medicine employing an all-hazards framework and to provide essential skills enabling proper functioning in the event a catastrophe arises in the near future. The course will include lectures, simulation exercises and independent web-assisted content.
Term Offered: Spring, Fall

PUBH 6600 Health Behavior
[3 credit hours (0, 0, 0)]
Examines the role of behaviors on health status and how to influence and understand behavior through use of cognitive models and change theory.
Term Offered: Spring, Summer, Fall

PUBH 6620 Introduction to Health Policy and Health Systems
[3 credit hours (3, 0, 0)]
This course examines public health and healthcare policy from a public health perspective. It emphasizes the interrelatedness of law, the policymaking process, and governmental public health; addresses essential issues in health policy and law (e.g., health insurance, health economics, government health insurances, the uninsured); and introduces health policy analysis.
Term Offered: Fall

PUBH 6630 Public Health Advocacy
[3 credit hours (3, 0, 0)]
An examination of the importance of advocacy for the individual, community, and public health professionals. Special emphasis will be place on developing advocacy-based skills to effectively advocate at the micro and macro level. In addition, students will participate in advocacy efforts external to the university to gain experience that enriches the student's training.
Term Offered: Spring

PUBH 6690 Public Health Research Design
[3 credit hours (3, 0, 0)]
This course will cover the components of public health research methods. After completing the course, students will be able to write a research proposal to answer a question of interest. Additionally, students will be able to analyze evidence in order to engage in evidence-based public health practice. The course will be offered at the masters and doctoral levels with a focus on research methods utilized in public health and health education. The course is relevant for students in all majors within the M.PH. program, and is required for students in the Health Education Ph.D. program.
Term Offered: Spring

PUBH 6730 Research Environmental Health
[3 credit hours (0, 0, 3)]
Students will participate in selected ongoing research programs of members of the faculty. May be repeated for credit.
Term Offered: Spring, Summer, Fall

PUBH 6790 Indep Study in Biostatistics
[0-3 credit hours (0, 0, 0)]
This courses addresses areas of biostatistics not covered by a regular course offering. It is intended to provide students the knowledge and experience needed in that area. This course is designed for public health students and could be beneficial to Ph.D. students, specifically those who need advanced statistical techniques for their dissertation. Topics include survival analysis, statistical models in carcinogenesis, statistical genetics, nonparametric statistics and multivariate techniques. May be repeated for credit.
Term Offered: Spring, Summer, Fall

PUBH 6800 Evaluation of Health Programs
[3 credit hours (3, 0, 0)]
An exploration of types of program evaluation, evaluation models, data collection, types of data, data quality, evaluation reports, standard data collection instruments and ethical issues in health program evaluation (UT-Main). Prerequisites: HEAL 6460/HEAL 8460; co-requisite: HEAL 6750.
Term Offered: Spring, Fall

PUBH 6890 Indep Study in Public Health
[1-3 credit hours (0, 0, 0)]
The student and instructor will agree on a program of study that will enable the student to achieve specific learning objectives in environmental health. May be repeated for credit.
Term Offered: Spring, Summer, Fall

PUBH 6950 Integrative Learning Experience
[2 credit hours (0, 0, 2)]
Seminar course which serves as the culminating experience of the MPH program. Students are required to produce a high-quality written product that is appropriate to the student’s educational and professional objectives and that must demonstrate both Foundational and Major Competencies.
Term Offered: Spring, Summer, Fall

PUBH 6960 Internship in Public Health
[1-4 credit hours (0, 0, 1-4)]
Comprehensive or focused practical training in environmental and occupational health at a designated agency, organization, or company.
Term Offered: Spring, Summer, Fall

PUBH 6970 Project in Public Health
[1-4 credit hours (0, 0, 0)]
Independent development by a student with approval and guidance by a Major Advisor, of a paper, manual, software, etc. applicable to a specific area of environmental and occupational health.
Term Offered: Spring, Summer, Fall

PUBH 6980 Seminar in Public Health
[1-3 credit hours (0, 0, 0)]
A systematic study of selected topics in public health. Course meets for three consecutive semesters. Students may begin any semester, but must complete in sequence. Students register for one credit each term for a cumulative total of three consecutive semesters. May be repeated for credit.

PUBH 6990 Thesis Research
[1-4 credit hours (0, 0, 0)]

PUBH 8000 Biostatistics
[3 credit hours (3, 0, 0)]
PUBH 8010 Public Health Epidemiology
[3 credit hours (3, 0, 0)]
This course will present principles of the epidemiology method including problem solving. Various study designs will be discussed, including prospective and retrospective studies, analytical, and experimental methods.
Term Offered: Spring, Fall

PUBH 8020 Management and Leadership in Public Health
[3 credit hours (3, 0, 0)]
An introduction to the leadership and management principles necessary for the delivery of public health programs, intervention, and outreach, including fostering collaboration, effective communication, consensus building, negotiation, cultural awareness, budget and resource management, evaluation, coalition building, vision creation, mediation, empowering others, and guiding decision making.
Term Offered: Spring, Fall

PUBH 8030 Advanced Epidemiology
[3 credit hours (3, 0, 0)]
The course covers principles and methods of epidemiology in depth. The topics include causal inference, risk and effect, confounding, interaction, randomization, and matching. Special emphasis is given to design and interpretation of epidemiological studies.
Term Offered: Summer

PUBH 8060 Advanced Biostatistics
[3 credit hours (3, 0, 0)]

PUBH 8090 Issues in Public Health
[3 credit hours (3, 0, 0)]
Examination of various contemporary issues in public health. Included are social, economic, political and community problems in the provision of health services, health manpower and payment for health care.

PUBH 8110 Categorical Data Analysis
[3 credit hours (3, 0, 0)]

PUBH 8120 Epidemiology Infectious Diseases
[3 credit hours (3, 0, 0)]
Provides an overview of major infectious diseases affecting public health in the U.S. and worldwide; introducing the basic epidemiologic methods for surveillance and investigation of infectious disease outbreaks.
Term Offered: Fall

PUBH 8130 Molecular Epidemiology
[3 credit hours (3, 0, 0)]
This course covers both the major theoretical and practical issues of conducting an epidemiology study involving molecular and genomic techniques. The course will emphasize from infectious disease, chronic disease, and cancer research literature.
Term Offered: Fall

PUBH 8140 Clinical Epidemiology
[3 credit hours (3, 0, 0)]
This course focuses on epidemiologic concepts and methods in clinical medicine. Topics include clinical measurements and outcomes, risk, prognostic factors, clinical diagnosis, study design, decision analysis, clinical research and meta-analysis.
Term Offered: Spring

PUBH 8150 Reproductive Epidemiology
[3 credit hours (3, 0, 0)]
Additional assignments are here for students who will take this course as PUBH 8160. Covers broad reproductive health issues from the pre-conception, pre-natal, delivery, and post-natal periods and emphasizes how these issues affect women, men, babies, and infants. Relevant methodological and programmatic issues will be presented with practical illustrations from domestic and international settings. Guest speakers, including health care providers, will give real world experience and insight to these topics of study.
Prerequisites: PUBH 6010 with a minimum grade of D- and PUBH 8010 with a minimum grade of D-
Term Offered: Spring

PUBH 8170 Molecular and Genomic Epidemiology
[3 credit hours (3, 0, 0)]

PUBH 8180 Cancer Epidemiology
[3 credit hours (0, 0, 0)]
Focuses on a number of cancers, including the most incident cancers in the United States. Provides a broad overview of cancer epidemiology and basic substantive knowledge regarding many cancers and their risk factors, prevention, and biology and pathogenesis.
Term Offered: Summer, Fall

PUBH 8330 Public Health and Aging
[3 credit hours (0, 0, 3)]
Examines public health and aging issues in contemporary society. Introduces physical, cognitive, and affective function from a public health perspective. Prevention and health promotion are included.
Term Offered: Summer

PUBH 8410 Global Perspectives on Public Health and Disaster Preparedness
[3 credit hours (2, 1, 0)]
This course introduces the introductory healthcare learner (including but not limited to MD, MPH, PA, MSN, MSBS, OT, PT) to specific principles of global perspectives on disaster management and response. Covers epidemiology of various diseases and population health issues from a global and domestic perspective. Employs an all-hazards framework, providing essential skills to function in the event of a catastrophe. Guest speakers from healthcare disciplines who work internationally will present first-hand experiences in managing disasters.
Term Offered: Spring
PUBH 8420 Social Marketing in Health
[3 credit hours (3, 0, 0)]
The Centers for Disease Control and Prevention (CDC) identify social marketing as a practice allied with Health Education and Health Promotion. The CDC encourages programs to apply the principles of social marketing to health behavior change efforts in order to increase the effectiveness of interventions. Social marketing uses audience research to determine target audience segmentation into groups with common risk behaviors, motivations, and information channel preferences. Key audience segments are then reached with the mix of intervention strategies formed by the "4 P's" of social marketing, namely product, price, place, and promotion. The final product is designed based on the needs and desires of the consumer and persuasive messages promoting behavior change are promoted to the target audience. Continuous evaluation and message revision allows for ongoing refinement on the basis of consumer feedback.
Term Offered: Spring

PUBH 8430 Community Mental Health
[3 credit hours (3, 0, 0)]
In this course, mental health is examined from a public health perspective with a focus on epidemiological, behavioral, sociological and cultural issues. Particular emphasis is placed on the prevention of mental illness, social responses to illness, as well as the social determinants of mental health. Mental health, mental health promotion and community mental health issues are analyzed at individual and population level.
Term Offered: Summer

PUBH 8450 Disaster Preparedness/Response
[3 credit hours (3, 0, 0)]

PUBH 8510 Issues in Pandemic Preparedness and Response
[3 credit hours (2, 1, 0)]
By means of synchronous, asynchronous, audiovisual, and simulation platforms, the learner will develop an in-depth knowledge concerning how the healthcare infrastructure of a community must plan for, respond to, and recover from a pandemic. The course is divided into four topic areas: 1) introduction; 2) preparedness; 3) response; and 4) recovery.
Term Offered: Spring

PUBH 8550 Chronic Disease Epidemiology
[3 credit hours (3, 0, 3)]
Epidemiology of selected chronic diseases and non-infectious conditions: cancer, cardiovascular diseases, musculoskeletal diseases and other chronic diseases. Emphasis on classification, rates, associations, etiology, prevention and control.
Prerequisites: PUBH 6010 with a minimum grade of C or PUBH 601 with a minimum grade of C
Term Offered: Summer

PUBH 8560 Interdisciplinary Crisis Management for Medical and Public Health Professionals
[3 credit hours (3, 0, 0)]
The purpose of this semester course is to introduce the interdisciplinary healthcare learner (including but not limited to MD, PA, MPH, MSN, OT and PT students) to specific principles of epidemiology and disaster medicine employing an all-hazards framework and to provide essential skills enabling proper functioning in the event a catastrophe arises in the near future. The course will include lectures, simulation exercises and independent web-assisted content.
Term Offered: Spring, Fall