Master of Public Health (MPH) 
Curriculum & Course Descriptions

Core Courses

MPH 602  Public Health System  
This course provides an overview of the history, basic structures and operations of public health and health care delivery systems.

MPH 511  Biostatistics  
Applies statistical reasoning and methods in addressing, analyzing, and solving problems in public health, healthcare, and biomedical, clinical, and population-based research. Prerequisite: Algebra or equivalent.

MPH 604  Epidemiology  
Studies the patterns of disease and injury in human populations and applies findings to the control of health problems using Excel and PASW (formerly SPSS) statistical software.

MPH 610  Health Policy  
This course considers current health policies as they relate to larger political and social debates, the determinants of disease, and available resources and information-gathering systems necessary to formulate health policies.

MPH 603  Public Health Ethics  
Applies basic principles of ethical analysis (e.g. Public Health Code of Ethics, human rights framework, other moral theories) to issues of public health practice and policy.

MPH 601  Behavioral and Social Aspects of Public Health  
Addresses behavioral and social factors and theories related to individual and population health.

MPH 605  Environmental Health  
Studies environmental factors including biological, physical, and chemical factors that affect the health of the community.

MPH 606  Methods of Research in Public Health  
Explores research design, collection and reporting of data, interpretation of findings, inferential procedures and current public health research. Prerequisites: MPH 511 and MPH 604  Department Consent Required.

MPH 609  Cultural Context of Health  
Addresses cultural factors related to individual and population health and health disparities over the life course.

MPH 611  Biological Aspects of Public Health  
Explores the biological and molecular context of public health and its incorporation into public health practice and articulates how

MPH 662  Management of Health Services Organizations  
This course is an overview of the organizational structures, management styles and challenges in health care organizations. Students will learn key business functions as they apply to the effective management of health care organizations.
MPH 607  **Community Health Analysis**  
Demonstrates the collection of data on and setting priorities for improving the health of a defined population. It involves field work and utilization of research skills. This culminating experience requires the synthesis and integration of knowledge from previous coursework. Prerequisites: MPH 511, MPH 604 and MPH 606  *Department Consent Required.*

MPH 690  **Internship**  
During the internship, students will demonstrate skills and competencies learned in the MPH program in a practical, supervised experience in a health-related agency. The purpose of the internship is to provide experiential learning and the opportunity to explore professional goals.

**Health Management and Policy Certificate/Concentration**  
*Complete three foundation courses and one elective*

MPH 602  **Public Health System**  
Explores the history, basic structures and operations of public health and health care delivery systems based on Essential Public Health Services.

MPH 610  **Health Policy**  
This course considers current health policies as they relate to larger political and social debates, the determinants of disease, and available resources and information-gathering systems necessary to formulate health policies.

MPH 662  **Management of Health Services Organizations**  
This course is an overview of the organizational structures, management styles and challenges in health care organizations. Students will learn key business functions as they apply to the effective management of health care organizations.

MPH 664  **Marketing in Public Health**  
Explores concepts of marketing theory, planning, strategy, research and implementation of marketing plans including social media plans. Cross listed with NRHL 664

MPH 680  **The Business of Healthcare (Elective)**  
Explores current topics in the business of delivering health services in the U.S. including insurance, privacy of information, accountable care organizations, and financing structures.

*Included in the Master’s Core Courses*

**Emergency Preparedness Certificate/Concentration**

MPH 650  **Emergency Preparedness in Public Health**  
Introduces the core principles and practices of emergency preparedness and planning from all types of hazards, threats and disasters

MPH 654  **Psychology and Sociology of Disasters**  
Examines the immediate and long-term effects that natural and man-made disasters have on survivors, their communities and first responders; and methods to assist survivors in their recovery.

MPH 656  **Emergency Response and Recovery.**
Focuses on the role of the public health system in responding to all types of hazards, threats, and disasters. This course builds upon the concepts learned in MPH 650 and MPH 654.

**Disaster Management in Public Health**
Examines incident preparedness and response from a variety of public health dimensions, including: acute and chronic health care delivery, impacts on vulnerable populations, delivery of basic human services, epidemic response, and environmental and occupational health.

**Health Education & Promotion Certificate/Concentration**
*Complete three foundation courses and one elective*

- **MPH 601** Behavioral and Social Aspects of Public Health*
  Students will explore social and psychological determinants and theories of health behavior.

- **MPH 609** Cultural Context of Health*
  This course provides information on the cultural and sociological contexts in which the health care system developed. Students examine the role of socio-economic groups in the history of the U.S. health care system.

- **MPH 632** Public Health Education Methods
  Presents evidence-based methods of health education and promotion addressing major risk factors for death, injury, and disability.

- **MPH 664** Marketing of Public Health.
  Explores concepts of marketing theory, planning, strategy, research and implementation of marketing plans including social media plans. Cross listed with NRHL 664.

- **MPH 688** Media, Technology and Public Health (Elective)
  Explores the role of mass media, social networking and other emerging technology-based tools in public health practice.

*Included in Master's program core courses*

**Epidemiology Certificate/Concentration**
*Complete three foundation courses and one elective*

- **MPH 511** Biostatistics*
  Students will learn basic statistical concepts including frequency distributions, central tendency and variability via parametric and nonparametric methods, as well as related Excel applications.

- **MPH 604** Epidemiology*
  Students will learn to analyze chronic and communicable disease patterns. Coursework covers the epidemiological triad and other models, preventive health and medicine, the impact and spread of disease throughout history and the study of epidemiological statistical methods.

- **MPH 606** Methods of Research in Public Health*
  This course presents an overview of research design, collection and reporting of data, interpretation of findings, inferential procedures and current public health research.
MPH 696  **Applied Epidemiology**
This course combines the fundamental skills and competencies acquired in biostatistics, epidemiology, and methods of research and provides an interactive, hands-on experience in actual study design, development of survey instruments, and collection, analysis and reporting of real data.

*Included in Master's program core courses*
### Master of Public Health Program Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH 602</td>
<td>Public Health System</td>
<td>This course provides an overview of the history, basic structures and operations of public health and health care delivery systems.</td>
</tr>
<tr>
<td>MPH 511</td>
<td>Biostatistics</td>
<td>Students will learn basic statistical concepts including frequency distributions, central tendency and variability via parametric and non-parametric methods, as well as related Excel applications.</td>
</tr>
<tr>
<td>MPH 601</td>
<td>Behavioral and Social Aspects of Public Health</td>
<td>Students will explore social and psychological determinants and theories of health behavior.</td>
</tr>
<tr>
<td>MPH 610</td>
<td>Health Policy</td>
<td>This course considers current health policies as they relate to larger political and social debates, the determinants of disease, and available resources and information-gathering systems necessary to formulate health policies.</td>
</tr>
<tr>
<td>MPH 603</td>
<td>Ethical and Political Issues in Public Health</td>
<td>This course focuses on the ethical and political dimensions of and impact on public health and health care organizations and professions.</td>
</tr>
<tr>
<td>MPH 604</td>
<td>Epidemiology</td>
<td>Students will learn to analyze chronic and communicable disease patterns in the U.S. and the world. The course covers the epidemiological triad and other models, preventive health and medicine, the impact and spread of disease throughout history and the study of epidemiological statistical methods.</td>
</tr>
<tr>
<td>MPH 605</td>
<td>Environmental Health</td>
<td>The health implications of human relationships to the biosphere are examined as well as the effect of environmental change on physical, biological and social patterns. Alternative solutions for environmental problems are explored.</td>
</tr>
<tr>
<td>MPH 606</td>
<td>Methods of Research in Public Health</td>
<td>Explores research design, collection and reporting of data, interpretation of findings, inferential procedures and current public health research.</td>
</tr>
<tr>
<td>MPH 611</td>
<td>Public Health Biology</td>
<td>Students will examine how diseases occur in order to plan effective interventions. Topics covered include how infectious diseases are transmitted; risk factors and biological processes for common diseases; and the impact of these diseases, disorders, conditions and control strategies on the health of the public.</td>
</tr>
</tbody>
</table>
MPH 607  **Community Health Analysis**  
Students will learn to analyze the factors relating to health needs in communities, leading to proposals for solutions. Coursework involves research and field work.

MPH 609  **Cultural Context of Health**  
Addresses cultural factors related to individual and population health and health disparities over the life course.

MPH 662  **Management of Health Services Organizations**  
This course is an overview of the organizational structures, management styles and challenges in health care organizations. Students will learn key business functions as they apply to the effective management of health care organizations.

MPH 690  **Internship**  
During the internship, students will demonstrate skills and competencies learned in the MPH program in a practical, supervised experience in a health-related agency. The purpose of the internship is to provide experiential learning and the opportunity to explore professional goals.

**Master of Science in Management and Organizational Behavior Courses**

MBA 500  **Financial Accounting**  
Students will study the preparation, interpretation and analysis of the balance sheet, income statement and statement of cash flows. The course emphasizes the rationale for and implications of important accounting concepts, the selection of alternatively acceptable accounting methods and the varying affects of valuation and net income determination. Students will gain an understanding of complex accounting data that is required at upper management levels.

MGMT 521  **Career and Human Resource Planning**  
The course covers current theory and research in career and manpower planning, including techniques, Affirmative Action and career planning, career change, age-30 crisis, mid-career crisis, dual-career couples and retirement.

MGMT 634  **Strategy, Structure, Decision Making**  
Students will focus on the role of management in the development of organizational strategy, the decision-making process and the development of appropriate organizational structure and control systems. Case analyses will be used as a method for understanding and applying macro-behavioral and management science concepts to the resolution of managerial and organizational problems.

MGMT 522  **Ethics and Social Responsibility in Management**  
The course examines major ethical theories and considers the need for social responsibility in business and other organizations. Students will study the ethical dilemmas faced by managers in such areas as marketing, product safety, the environment, job discrimination and dealing with people in an organization.

MGMT 540  **Data Processing & Management**  
Surveys the uses of information systems for effective operations, decision-making and strategic advantage. A major emphasis is to analyze how information systems are used to support a business strategy. Design concepts are discussed to insure that any developed system will support organizational needs. Includes the study of technology and its application, with the use of several common software tools such as spreadsheets, word processors and databases.
MGMT 671 Strategic Management
In this course, students will master strategy formulation and implementation concepts using cases and readings.

MGMT 591 Lecture Series

Electives – you will choose from the following

MGMT 581 Team Building*
Develops a working knowledge of team building, its theoretical basis, and its strengths and weaknesses as an organization development intervention.
*must be taken with MGMT 582

MGMT 582 Conflict Management*
Explores interpersonal and intragroup conflict and conflict management. Examines underlying causes, participant strategies and outcomes, and effective management strategies.
*must be taken with MGMT 581

MGMT 583 Organizational Assessment*
Considers the theory and practice of organizational change and organization development (O.D.). Discusses analysis, planning, implementation and evaluation of change programs. Covers the learning process, O.D. interventions, consultant skills, employee participation, monitoring success, reinforcement and ethical issues.
*must be taken with MGMT 584

MGMT 553 Organization Design*
Focuses on the design of organizations to perform optimally for various environments and purposes. Reviews ways to move organizations toward a desired structure.
*must be taken with MGMT 557

MGMT 552 Leadership*
This course examines alternative models of leadership and their effects on employee and organizational performance. Key topics include leadership skills and strategies for effective performance.
*must be taken with MGMT 555

MGMT 584 Strategies for Change*
Reviews the development and implementation of successful change. Focuses on the development of diagnostic skills and the selection of appropriate change methods. Includes exploration of the role of the change agent, employee involvement and political issues.
*must be taken with MGMT 583

MGMT 555 Power Strategies*
Surveys contemporary perspectives and measures of power, influence, and control as they relate to motivation, interpersonal relations and organizational climate.
*must be taken with MGMT 552

MGMT 612 Methods of Organizational Research
Covers alternative methods of research design for organizational studies. Emphasizes academic and practitioner research issues and skill-building in the logic and practice of organizational research. Includes qualitative and quantitative research design, data collection, analysis and report writing.

MGMT 557 Organizational Culture
Covers alternative methods of research design for organizational studies. Emphasizes
academic and practitioner research issues and skill-building in the logic and practice of
organizational research. Includes qualitative and quantitative research design, data
collection, analysis and report writing.
*must be taken with MGMT 553

MGMT 571 Labor Relations*
Covers the basic concepts relevant to laws governing labor relations. Focuses on
contracts, including recognition of the union, negotiation and administration, patterns of
contracts currently in existence and their negotiation process, and issues that arise during
contract administration.
*Must be taken with MGMT 579

MGMT 579 Training & Development Overview
Covers the steps in the training/management development process from needs
assessment to training design to training evaluation. Examines the role of training in
strategic human resource planning and organizational career management.
*must be taken with MGMT 571
# Dual Master of Public Health/Master of Business Administration
## Curriculum and Course Descriptions

### Master of Business Administration Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 520</td>
<td>Leadership &amp; Ethics in Global Environment</td>
<td>Reviews paradigms of leadership in global environment. Introduces and applies principles for ethical decision-making in business situations. Assesses student's leadership capacities and responsibilities in challenging situations.</td>
</tr>
<tr>
<td>MBA 541</td>
<td>Analytical Tools for Management Decisions</td>
<td>This course prepares students to be more effective users of quantitative information as well as to avoid potential pitfalls from the misuse of statistical methods. Coursework emphasizes understanding what a previously obtained data set implies and, if appropriate, to develop meaningful forecasts with a reasonable sense of confidence. Specific topics include data analysis and statistical description, sampling and statistical inference, time series and regression analysis.</td>
</tr>
<tr>
<td>MBA 510</td>
<td>Economics</td>
<td>Students will study fundamental concepts of macroeconomics, including supply and demand as well as methods of measuring economic performance, such as GDP, inflation, and unemployment. Other topics include the causes of instability in the economy and potential corrective measures.</td>
</tr>
<tr>
<td>MBA 500</td>
<td>Financial Accounting</td>
<td>Concentrates on the preparation, interpretation, and analysis of the balance sheet, income statement and statement of cash flows. Emphasizes the rationale for and implications of important accounting concepts, the selection of alternative accounting methods, and their effects on valuation, net income determination and reporting.</td>
</tr>
<tr>
<td>MBA 539</td>
<td>International Business</td>
<td>Students will discuss selected readings in international business. Topics include culture, geography, politics, foreign direct investment, supply chain management, monetary systems, foreign exchange markets and political risk management. Current developments in international business will be covered.</td>
</tr>
<tr>
<td>MBA 601</td>
<td>Managerial Accounting</td>
<td>This course introduces the measurement, communication, and interpretation of cost data for management decision-making, planning, control, and evaluation of results. Students are shown how to use accounting information as an effective management tool for coordinating managerial activities. Course material is explored in the context of the extensive changes being implemented in the area of manufacturing, service delivery technologies, and control systems. This course uses case studies to emphasize the application of concepts.</td>
</tr>
<tr>
<td>MBA 611</td>
<td>Managerial Economics</td>
<td>Students will learn to apply micro-economic tools to business decision-making. Topics include optimization, consumer behavior, elasticity of demand, the use of regression analysis to estimate demand (revenues) and costs, marginal analysis and market structure.</td>
</tr>
</tbody>
</table>
MBA 651  **Financial Management**
Students will develop an understanding of financial theory and its application through case analysis. Topics include capital management, operating and financial leverage, costs of capital, investment, and financing decisions. Coursework covers techniques for the evaluation of investment alternatives using net present value and internal rate of return concepts. The course emphasizes the application of these concepts to the valuation of a going concern. Extensive use of pro forma modeling of financial statements is made throughout the course.

MBA 661  **Marketing Management**
This course introduces students to both the theory and practice of marketing. It analyzes all marketing issues from the perspective of the marketing manager. Students will explore how consumer behavior, market research, environmental trend analysis, new product development, pricing and distribution decisions, and promotional considerations must interact to create a successful marketing program. Case analysis, contemporary issues in marketing, and the practical application of marketing concepts to the student’s employment experiences are also features of this course.

MBA 630  **Operations Management**
This course focuses on the strategic role of operations and how to improve operations processes. Issues to be discussed include continuous quality improvement, the critical importance of the customer and consideration of selected quantitative techniques.

MBA 683  **Project Management**
The class is an examination of the art and science of project management as applied to a variety of business and technology settings. Students will study how to initiate, plan, execute, control and close projects within budget and on schedule. Advanced topics may include critical chains, adaptive and agile project management and portfolio management. A project planning software tool is used, usually MS Project. This course is appropriate for technology and non-technology managers alike.

MBA 671  **Strategic Management**
This course requires students to use and integrate the disciplines and techniques learned in previous required courses. Strategy formulation and implementation concepts are discussed using theory and cases. This course should be taken within two courses of completion of the required courses. Required. Prerequisites: MBA 651, MBA 661.

**Master of Public Health Program Courses**

MPH 602  **Public Health System**
This course provides an overview of the history, basic structures and operations of public health and health care delivery systems.

MPH 601  **Behavioral and Social Aspects of Public Health**
Students will explore social and psychological determinants and theories of health behavior.

MPH 610  **Health Policy**
This course considers current health policies as they relate to larger political and social debates, the determinants of disease, and available resources and information-gathering systems necessary to formulate health policies.
MPH 604  **Epidemiology**
Students will learn to analyze chronic and communicable disease patterns in the U.S. and the world. The course covers the epidemiological triad and other models, preventive health and medicine, the impact and spread of disease throughout history and the study of epidemiological statistical methods.

MPH 605  **Environmental Health**
The health implications of human relationships to the biosphere are examined as well as the effect of environmental change on physical, biological and social patterns. Alternative solutions for environmental problems are explored.

MPH 606  **Methods of Research in Public Health**
This course is an overview of research design, collection and reporting of data, interpretation of findings, inferential procedures and current public health research.

MPH 609  **Cultural Context of Health**
This course provides information on the cultural and sociological contexts in which the health care system developed. Students examine the role of socio-economic groups in the history of the U.S. health care system.

MPH 611  **Public Health Biology**
Students will examine how diseases occur in order to plan effective interventions. Topics covered include how infectious diseases are transmitted; risk factors and biological processes for common diseases; and the impact of these diseases, disorders, conditions and control strategies on the health of the public.

MPH 607  **Community Health Analysis**
Students will learn to analyze the factors relating to health needs in communities, leading to proposals for solutions. Coursework involves research and field work.

MPH 662  **Management of Health Services Organizations**
This course is an overview of the organizational structures, management styles and challenges in health care organizations. Students will learn key business functions as they apply to the effective management of health care organizations.

MPH 690  **Internship**
During the internship, students will demonstrate skills and competencies learned in the MPH program in a practical, supervised experience in a health-related agency. The purpose of the internship is to provide experiential learning and the opportunity to explore professional goals.

**Elective**

MGMT 581  **Team Building**
Develops a working knowledge of team building, its theoretical basis, and its strengths and weaknesses as an organization development intervention.