

continuous quality improvement, and risk abatement will be discussed.

CMD 582 Special Problems in Speech-

Language Pathology: (2-4 Hours) Prerequisite: Permission of academic advisor and instructor. This course has varying content dealing with issues, trends and topics of current interest. Content will be developed based on assessed needs, interests and goals of a group(s) of students.

CMD 585 Independent Study: (3-6 Hours)

Prerequisite: Permission of academic advisor and instructor. This course allows for the exploration of topics and/or issues based upon assessed needs, interest and goals of the individual student under the guidance of a faculty member. Typically, such a study will concentrate on an area not covered in other courses, or an area in which the individual student has developed particular interest and wishes to explore beyond what was covered in another course(s).

CMD 589 Master's Project: (3-6 Hours) Candidates for the Master of Science degree in Communicative Disorders may choose to complete a creative project within the student's professional area under the supervision of a graduate advisor within the Department. It is expected that this project will contribute to the knowledge base of the profession.

CMD 590 Thesis: (3-6 Hours) Candidates for the Master of Science degree in Communicative Disorders may choose to present a thesis that embodies independent research. The topic must be within the student's major professional area and must be approved by the student's thesis advisor within the Department. It is expected that the research will contribute to the knowledge base of the profession.

GRADUATE PROGRAMS IN PUBLIC HEALTH

- ◆ Master of Public Health (M.P.H.)
- ◆ Doctor of Public Health (Dr.P.H.)

The Public Health Program is comprised of the following three departments.

DEPARTMENT OF

BEHAVIORAL AND ENVIRONMENTAL HEALTH

Dr. Mohamed Shahbazi, Associate Professor
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Faculty

Dr. C. Arthur, Professor
Dr. D. Brown, Assistant Professor
Dr. S. Leggett, Associate Professor
Dr. G. Cannon-Smith, Assistant Professor
Dr. S. Omari, Associate Professor
Dr. G. Prater, Professor
Dr. S. Spence, Associate Professor

DEPARTMENT OF EPIDEMIOLOGY AND BIostatISTICS

Dr. Mario Azevedo, Professor and Chair
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Faculty

Dr. O. Ekundayo, Associate Professor
Dr. M. Payton, Associate Professor
Dr. I. Perkins, Professor
Dr. H. Taylor, Clinical Professor

DEPARTMENT OF HEALTH POLICY AND MANAGEMENT

Dr. 'Emeka Nwagwu, Professor and Chair
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Faculty

Dr. J. Bennett, Assistant Professor
Dr. A. Bhuiyan, Assistant Professor
Dr. B. Johnson, Assistant Professor
Dr. S. Ochou, Assistant Professor
Dr. F. Okojie, Professor
Dr. M. Younis, Associate Professor

Mission

The mission of the Public Health Program The mission of the School of Health Sciences is to provide

quality education and leadership in community-based research and practice. Through collaboration with communities, the School will promote health and prevent disease and disability with special emphasis on the underserved and at-risk populations in Mississippi, the nation, and the world.

Goals

Instructional Goal: To provide students with discipline-specific and core competencies in the essential public health services. To achieve this goal, the program will prepare individuals at the masters' and doctoral levels through mentoring and training in public health with a focus on the underserved and at-risk populations in Mississippi, the nation, and the world.

Research Goal: To provide leadership and advance social justice through evidence-based scientific inquiry, generate knowledge in the reduction of risk and prevention of disease and disability among the underserved and at-risk populations in Mississippi, the nation, and the world.

Service Goal: To provide technical expertise, advocacy, and translational resources to internal stakeholders (university, school, departments, program) and external stakeholders (local, national and global communities, public agencies, and the private sector).

MASTER OF PUBLIC HEALTH (M.P.H.)

This range of work includes healthcare, preventive and regulatory agencies, community health promotion service organizations, health policy organizations, and an array of health-oriented public, not-for-profit, and private groups. The concentrations for the Master of Public Health are as follows.

Concentration in

Behavioral Health Promotion and Education

Behavioral Health Promotion and Education focuses on the health related behavior of individuals in the context of sociocultural structures, communities, healthcare systems, and family units. Of particular interest is how health-related behaviors of individuals are determined by and interact with conditions in the social, political, cultural, economic, physical, and biological environment to influence health status. Emphasis is placed on identifying, evaluating, and diminishing unhealthy behaviors and promoting positive personal health. This concentration seeks to integrate and apply public health theories and methods to problems of human health. Assessment, planning and evaluation with emphasis on sociocultural aspects of health are the core themes of the study of health promotion and education.

Concentration in Epidemiology

Epidemiology prepares students for careers as scientific researchers, practical field investigators, health officers, research program directors and managers, and other research areas of public health. Epidemiologists work closely with biostatisticians in designing and analyzing research studies. This concentration is designed for students to acquire a thorough understanding of epidemiological methods, statistical principles, and computer software applications to apply to the practical fields of public health. It offers students an opportunity to acquire specific skills in designing research studies and knowing how to collect data, analyze, and interpret research studies.

Concentration in Health Policy and Management

The degree concentration in Health Policy and Management prepares students for careers in public health policy and healthcare management. This concentration provides the student core competencies in management, strategic planning, marketing, human resource management and motivation. Students evaluate the role of governmental institutions in the policy process; examine policy models; and learn how health policy in the United States is uniquely different from that of other countries. Financial aspects of health care are offered to those in the discipline that plan to be future managers. Social and legal principles impacting healthcare delivery in the United States are other core components.

Admission Requirements

Applicants must be admitted to both the Division of Graduate Studies and the MPH Program. To facilitate determination of admissions into the MPH Program, applicants must send materials to both the Division of Graduate Studies and the MPH Program. Applications may be found on-line with the Division of Graduate Studies (<http://www.jsums.edu/~gadmappl>) and the various departments in the School of Health Sciences. Applicants will only be admitted once a year during the Fall semester.

Regular Status

- ◆ Baccalaureate degree from an accredited college or university with a 3.00 cumulative grade point average. International students must meet equivalent standards and possess a satisfactory score on the Test of English as a Foreign Language (TOEFL) Examination.
- ◆ A personal statement of professional goals.
- ◆ Three letters of reference must be submitted with the completed application forms, which may be obtained from the Division of Graduate Studies.

Conditional Status

Conditional status may be assigned to students who have a cumulative a GPA of 2.50-2.99 (on a 4.0 scale) and are admitted to a degree program.. Students must

earn regular status during the first semester of full-time enrollment, or in the first 12 credit hours of part-time enrollment courses by acquiring a 3.00 GPA which must be completed within one year of conditional admission.

Transfer of Credits and Other Requirements

A maximum of 9 graduate semester hours earned with a “B” or higher may be transferred from Jackson State University programs and other institutions toward MPH degree. Transfer credit is made upon the recommendation of the chair of the major department, the academic college dean or designee and approval of the Dean of the Division of Graduate Studies.

Scholarships and Graduate Assistantships

Financial support may be offered to matriculating students holding regular admission status and maintaining a 3.0 program GPA as determined by the department. In order to remain eligible for financial assistance, students must maintain a minimum 3.00 cumulative GPA and remain in good professional academic standing (e.g., achieve a passing score on the Graduate Area Comprehensive Examination). Only full-time students are eligible for assistantships offered by the MPH Program.

Academic Performance

Once admitted to the MPH program, graduate students are required to maintain a 3.0 GPA to continue studies in good academic standing.

MPH Curriculum

Full-time students can usually complete the curriculum in two years. Part-time students usually requires two additional semesters to complete the program.. Most students are expected to graduate within three years. Students acquire the necessary professional knowledge, skills and competencies that qualify them for employment in public health and health service organizations in their specialized disciplines. The program must be completed with a 3.0 or higher cumulative GPA for the minimum 45 credit hours. The curriculum has four major components: core courses, required concentration courses, electives, and the field practicum.

The core courses include the following basic subject studies as required by the CEPH: a) philosophy and historical basis of public health concepts; b) statistical basis of population health demography and quantitative, computer-based problem solving; c) epidemiological foundations of public health; d) social and behavioral determinants of community and personal health status; e) environmental and biological factors in public health; and f) management theory and practice of health and human services.

Required courses in each of the three concentrations assure thorough grounding in the particular public health discipline in which the student chooses to qualify. Additional elective courses towards the MPH

degree may be taken in the student’s concentration or from other specializations of individual preference, as approved by the concentration faculty advisor. All students must complete a public health residency in the field. As a component of the “capstone” and integrating experience, an applied master’s project s required focusing on the student’s concentration area. The other component of the “capstone” is the required master’s comprehensive examination.

The MPH curriculum requires 6 core courses or 18 credit hours (3 hours per course) for all students. Each department assures that students take 5 required specialization courses or 15 credit hours for the advanced study in a specific public health concentration: Behavioral health promotion and education, epidemiology, and health policy and promotion.

Elective courses are offered in each concentration. Students may complete their three courses or 9 credit hours of electives within these specializations or other graduate level courses by advisor approval.

The Program will assist in the placement of students in field training which will account for 3 credit hours. Students will be place at least one full semester and commit a minimum of 400 clock hours during the semester under the supervision of a professional public health preceptor and faculty mentor. The location and specific residency activities will be worked out individually between the student and field work organization with approval by the faculty member of record, prior to initiating the experience. Comprehensive “guidelines” following the requirements of CEPH accreditation will be employed by the program. They will include appropriate covenants of mutual obligation between the university and the field agency through a written of affiliation agreement. The purpose of this experience is to provide students with opportunities to apply and demonstrate their acquired knowledge and skill competencies in a public health setting as practice preparation for professional employment or doctoral studies upon graduation

Graduation Requirements

Students culminate their study program by taking PHS 508- Public Health Internship. PHS 506 must be completed in the semester prior to taking the field practicum. A minimum of 45 semester hours with a cumulative average of 3.0 or ‘B’ (on a 4.0 scale) or higher are required to earn the MPH degree. The Graduate Comprehensive Examination must be taken before graduation. The Graduate English Competency Examination must be taken during the first semester of graduate studies at Jackson State University, must be passed before graduation. Students who fail this test must successfully complete English 500-Advanced Laboratory Writing during their second semester of enrollment.

Master of Public Health Curriculum

Behavioral Health Promotion and Education

| Core Courses | | Semester |
|--------------------------|--|----------|
| Course | Title | Hours |
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | 3 |
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 504 | Environmental and Occupational Health | 3 |
| PHS 505 | Principles of Epidemiology | 3 |
| PHS 506 | Research and Quantitative Methods | 3 |
| | <i>Hours</i> | 18 |
| Required Courses | | |
| PHS 531 | Health Behavior, Promotion and Education | 3 |
| PHS 532 | Community and Patient Health Education | 3 |
| PHS 533 | Wellness and Health Promotion Management | 3 |
| PHS 534 | Communication and Health Education Marketing | 3 |
| PHS 535 | Behavioral Change Program Strategies | 3 |
| | <i>Hours</i> | 15 |
| *Elective Courses | | 9 |
| Capstone Course | | |
| PHS 508 | Public Health Residency | 3 |
| | <i>Total Hours</i> | 45 |

*With approval from the faculty advisor and course instructor, a student may take elective courses from other academic units at Jackson State University. Students in Behavioral and Environmental Health may pursue an environmental health emphasis by including the following three courses (as electives) in their plan of study towards their total of 45 hours for the MPH degree: PHS 543-Occupational Health and Safety Management, PHS 544- Environmental and Occupational Toxicology, and PHS 545- Environmental Policy and Occupational Health Regulations.

Epidemiology Concentration

| Core Courses | | Semester |
|--------------------------|--|----------|
| Course | Title | Hours |
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | 3 |
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 504 | Environmental and Occupational Health | 3 |
| PHS 505 | Principles of Epidemiology | 3 |
| PHS 506 | Research and Quantitative Methods | 3 |
| | <i>Hours</i> | 18 |
| Required Courses | | |
| PHS 521 | Advanced Seminar in Epidemiology | 3 |
| PHS 522 | Multivariate and Probabilistic Statistics | 3 |
| PHS 523 | Chronic and Infectious Disease Epidemiology | 3 |
| PHS 524 | Statistical Methods for Applied Epidemiology | 3 |
| PHS 525 | Epidemiology of Minority and Special Populations | 3 |
| | <i>Hours</i> | 15 |
| Elective Courses* | | 9 |
| Capstone Course | | |
| PHS 508 | Public Health Internship | 3 |
| | <i>Total Hours</i> | 45 |

*With approval from the faculty advisor and course instructor, a student may take elective courses from other academic units at Jackson State University.

Health Policy and Management

| Core Courses | | Semester |
|--------------------------|--|----------|
| Course | Title | Hours |
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | 3 |
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 504 | Environmental and Occupational Health | 3 |
| PHS 505 | Principles of Epidemiology | 3 |
| PHS 506 | Research and Quantitative Methods | 3 |
| | <i>Hours</i> | 18 |
| Required Courses | | |
| PHS 511 | Organizational Design and Behavior | 3 |
| PHS 512 | Public Health Policy, Law and Ethics | 3 |
| PHS 513 | Financial Management of Health Services | 3 |
| PHS 514 | Health Information Management Systems | 3 |
| PHS 515 | Marketing Public Health and Strategic Planning | 3 |
| | <i>Hours</i> | 15 |
| *Elective Courses | | 9 |
| Capstone Course | | |
| PHS 508 | Public Health Internship | 3 |
| | <i>Total Hours</i> | 45 |

* With approval from the faculty advisor and course instructor, a student may take elective courses from other academic units at Jackson State University.

Important Notice for all MPH Students: For students entering the MPH Program on a full-time basis in the Fall 2008 and after, the full time plans must be followed in each of the concentrations. Students entering the MPH Program on a part-time basis in the Fall 2008 and after, the part-time plans must be followed in each of the concentrations. Full-time students are admitted for full-time study to one department only. Transfer from (1) full-time to part-time student status, or, (2) part-time to full-time student status, must be applied for and approved by 0 the department of origin. Change of department must be approved by both the department chairs of the originating department and of the transfer department. Transfers are not automatic.

Behavioral Health Promotion and Education Full-Time Plan of Study

| Core Courses –First Year | | Semester |
|--------------------------|--|----------|
| Fall Semester | | Hours |
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | 3 |
| PHS 504 | Environmental and Occupational Health Elective | 3 |
| | | 12 |
| Spring Semester | | |
| PHS 503 | Biostatistics and Computer Applications | 3 |

| | | |
|---------|-----------------------------------|----------|
| PHS 505 | Principles of Epidemiology | 3 |
| PHS 506 | Research and Quantitative Methods | 3 |
| | Elective | <u>3</u> |
| | <i>Hours</i> | 12 |

Concentration Courses- Second Year

Fall Semester

| | | |
|---------|--|----------|
| PHS 531 | Health Behavior, Promotion and Education | 3 |
| PHS 532 | Community and Patient Health Education | 3 |
| PHS 533 | Wellness and Health Promotion Mngt. | 3 |
| | Elective | <u>3</u> |
| | | 12 |

Spring Semester

| | | |
|---------|---|----------|
| PHS 534 | Communication and Health Education Marketing | 3 |
| PHS 535 | Behavioral Change Program Strategies | 3 |
| PHS 508 | Public Health Internship | <u>3</u> |
| | | 9 |
| | <i>Total Hours</i> | 45 |

Behavioral Health Promotion and Education

Part-Time Plan of Study

Core Courses

First Year

Fall Semester **Semester Hours**

| | | |
|---------|---|----------|
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | <u>3</u> |
| | | 6 |

Spring Semester

| | | |
|---------|---|----------|
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 505 | Principles of Epidemiology | <u>3</u> |
| | <i>Hours</i> | 6 |

Summer

| | |
|-----------|---|
| Electives | 6 |
|-----------|---|

Second Year

Fall Semester

| | | |
|---------|---------------------------------------|----------|
| PHS 504 | Environmental and Occupational Health | 3 |
| | Elective | <u>3</u> |
| PHS 506 | Research and Quantitative Methods | 3 |
| | Elective | <u>3</u> |
| | | 6 |

Concentration Courses

Spring Semester

| | | |
|---------|--|----------|
| PHS 531 | Health Behavior, Promotion and Education | 3 |
| PHS 532 | Community and Patient Health Education | <u>3</u> |
| | | 6 |

Summer

| | | |
|---------|---|----------|
| PHS 533 | Wellness and Maternal Child Health Promotion | 3 |
| | Elective | <u>3</u> |
| | | 6 |

Third Year

Fall Semester

| | | |
|---------|---|----------|
| PHS 534 | Communication and Health Education Marketing | 3 |
| PHS 535 | Behavioral Change Program Strategies | <u>3</u> |
| | | 6 |

Spring Semester

| | | |
|---------|--------------------------|----------|
| PHS 508 | Public Health Internship | <u>3</u> |
| | <i>Total Hours</i> | 45 |

Epidemiology Concentration

Full-Time Plan of Study

Core Courses –First Year

Semester

Fall Semester **Hours**

| | | |
|---------|---|----------|
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | 3 |
| PHS 504 | Environmental and Occupational Health | 3 |
| | Elective | <u>3</u> |
| | | 12 |

Spring Semester

| | | |
|---------|---|----------|
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 505 | Principles of Epidemiology | 3 |
| PHS 506 | Research and Quantitative Methods | 3 |
| | Elective | <u>3</u> |
| | | 12 |

Concentration Courses – Second Year

Fall Semester

| | | |
|---------|--|----------|
| PHS 521 | Advanced Seminar in Epidemiology | 3 |
| PHS 522 | Multivariate and Probabilistic Statistics | 3 |
| PHS 523 | Chronic and Infectious Disease Epidemiology | 3 |
| | Elective | <u>3</u> |
| | | 12 |

Spring Semester

| | | |
|---------|---|----------|
| PHS 524 | Statistical Methods for Applied Epidemiology | 3 |
| PHS 525 | Epidemiology of Minority and Special Populations | 3 |
| PHS 508 | Public Health Internship | <u>3</u> |
| | | 9 |
| | <i>Total Hours</i> | 45 |

Epidemiology Concentration

Part-Time Plan of Study

Core Courses

First Year

Semester

Fall Semester **Hours**

| | | |
|---------|---|----------|
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | <u>3</u> |
| | | 6 |

Spring Semester

| | | |
|---------|---|----------|
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 505 | Principles of Epidemiology | <u>3</u> |
| | | 6 |

Summer Semester

| | |
|-----------|---|
| Electives | 6 |
|-----------|---|

Second Year

Fall Semester

| | | |
|---------|---------------------------------------|----------|
| PHS 504 | Environmental and Occupational Health | 3 |
| PHS 506 | Research and Quantitative Methods | <u>3</u> |
| | | 6 |

Concentration Courses

Spring Semester

| | | |
|---------|---|----------|
| PHS 524 | Statistical Methods for Applied Epidemiology | 3 |
| PHS 525 | Epidemiology of Minority and Special Populations | <u>3</u> |
| | | 6 |

Summer Semester

| | | |
|---------|--|----------|
| PHS 523 | Chronic and Infectious Disease Epidemiology | 3 |
| | Elective | <u>3</u> |
| | | 6 |

Fall Semester

| | | |
|---------|---|----------|
| PHS 521 | Advanced Seminar in Epidemiology | 3 |
| PHS 522 | Multivariate and Probabilistic Statistics | <u>3</u> |
| | | 6 |

Spring Semester

| | | |
|---------|--------------------------|----------|
| PHS 508 | Public Health Internship | <u>3</u> |
| | <i>Total Hours</i> | 45 |

Health Policy and Management**Full-Time Plan of Study**

| Core Courses –First Year | | Semester |
|---------------------------------|---|-----------------|
| Fall Semester | | Hours |
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | 3 |
| PHS 504 | Environmental and Occupational Health | 3 |
| | Elective | <u>3</u> |
| | | 12 |
| Spring Semester | | |
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 505 | Principles of Epidemiology | 3 |
| PHS 506 | Research and Quantitative Methods | 3 |
| | Elective | <u>3</u> |
| | | 12 |

Concentration Courses – Second Year**Fall Semester**

| | | |
|---------|---|----------|
| PHS 513 | Financial Management of Health Services | 3 |
| PHS 514 | Health Information Management Systems | 3 |
| PHS 515 | Marketing Public Health and Strategic Planning | 3 |
| | Elective | <u>3</u> |
| | | 12 |

Spring Semester

| | | |
|---------|--------------------------------------|----------|
| PHS 511 | Organizational Design and Behavior | 3 |
| PHS 512 | Public Health Policy, Law and Ethics | 3 |
| PHS 508 | Public Health Internship | <u>3</u> |
| | <i>Total Hours</i> | <u>9</u> |
| | | 45 |

Health Policy and Management**Part-Time Plan of Study**

| Core Courses | | Semester |
|------------------------|--|-----------------|
| First Year | | Hours |
| Fall Semester | | |
| PHS 501 | Public Health and Behavioral Science | 3 |
| PHS 502 | Public Health Policy and Administration | <u>3</u> |
| | | 6 |
| Spring Semester | | |
| PHS 503 | Biostatistics and Computer Applications | 3 |
| PHS 505 | Principles of Epidemiology | <u>3</u> |
| | | 6 |
| Summer Semester | | |
| | Electives | 6 |

Second Year**Fall Semester**

| | | |
|---------|---------------------------------------|----------|
| PHS 504 | Environmental and Occupational Health | 3 |
| PHS 506 | Research and Quantitative Methods | <u>3</u> |
| | | 6 |

Concentration Courses**Spring Semester**

| | | |
|---------|--------------------------------------|----------|
| PHS 511 | Organizational Design and Behavior | 3 |
| PHS 512 | Public Health Policy, Law and Ethics | <u>3</u> |
| | | 6 |

Summer Semester

| | | |
|---------|--|----------|
| PHS 513 | Financial Management of Health Services | 3 |
| | Elective | <u>3</u> |
| | | 6 |

Fall Semester

| | | |
|---------|---|----------|
| PHS 514 | Health Information Management Systems | 3 |
| PHS 515 | Marketing Public Health and Strategic Planning | <u>3</u> |
| | | 6 |

Spring Semester

| | | |
|---------|--------------------------|----------|
| PHS 508 | Public Health Internship | <u>3</u> |
| | <i>Total Hours</i> | 45 |

DESCRIPTION OF COURSES**Core Courses**

PHS 501 Public Health and Behavioral Science (3 hours) This course introduces public health organization and practice, including history, concepts, legal basis, purposes, programs and trends in the evolving of public and private sectors of social and preventive medicine in America. It discusses various behaviorally-related health determinants, and presents a number of theories/models to change behaviors at individual and group levels.

PHS 502 Public Health Policy and Administration (3 hours) This course presents an overarching introduction to national legislative issues and policy processes together with the managerial functions and practices in public and private healthcare organizations. Study emphasis is on the essentials of how executive and supervisory managers professionally perform their roles in the work of leading systemwide teamwork, strategy building, reengineering, resource acquisition, and market effectiveness in competitive environments.

PHS 503 Biostatistics and Computer Applications (3 hours) This course introduces the principles and methods of statistical analysis. Topics include hypothesis testing, confidence limits, sample size, statistical tests of inferences, and simple linear and multivariate analysis. Statistical software packages such as SPSS and Stata will be used in illustrating the basic principles of data analysis.

PHS 504 Environmental and Occupational Health (3 hours) This course introduces major community health concerns and problems in the related fields of environmental and occupational health with an emphasis on disease and disability. Students will review and analyze the policy and ecological change implications of these two public domains.

PHS 505 Principles of Epidemiology (3 hours) This course explores the science and practice of epidemiology and its contributions to disease detection, measurement, and prevention in clinical and public health settings. Specific topics include measurement of disease frequency, measurement of disease association, standardization, bias, and study designs. This course also introduces the practical fields of epidemiology.

PHS 506 Research and Quantitative Methods (3 hours) This course introduces students to applied research methods in public health. It emphasizes essential concepts, techniques and methods of research practice. Basic measurement procedures for analyzing health data are examined through SPSS computer software, and the student is required to complete the design of a research study. Prerequisites: PHS 503 and PHS 505.

Capstone Courses

PHS 507 Applied Master's Project (3 hours) The Masters' Research Project provides a culminating experience of the student's scientific and professional practice preparation, including proposal formulation of the problem to be studied or an operational project to be implemented with the evaluating conclusion and defending report of the outcome. Prerequisite: PHS 506 Research and Quantitative Methods

PHS 508 Public Health Internship (3 Hours) Students conclude their MPH studies with a supervised field experience in their respective specializations. This supervised residency practice operates for the full semester with a student commitment of a minimum of 400 clock hours with the placement organization, recognizing flexible arrangements for the mutual benefit of all parties and including possible compensation. The department, student, preceptor and field setting will abide by a formal affiliation agreement which provides policies and guidelines for the placement expectations and responsibilities. It culminates with an analytical focus on the student's concentration area. The report should emphasize the learning objectives and competencies for the internship. Enrollment requires permission of the advisor, the instructor of record, and chair. Completion of the course requires the agency's preceptor's evaluation.

Required Courses

Health Policy and Management

PHS 511 Organizational Design and Behavior (3 hours) This course examines universal organizational theories which adapt to private healthcare and public health services. Students study a framework of analysis looking at the management science explanations of human behavior in these settings from the perspectives of individual worker and patient roles, group and team relationships, and global systems. Topics include professional understanding of organizational culture, conflict, strategic design, change, measuring performance, and creating alliances.

PHS 512 Public Health Policy, Law and Ethics (3 hours) This course provides an overview of principles and policies relating to public health law and ethical applications. This course will explore federal laws and directives, along with state statutes and local ordinances. Recent case law from federal and state courts will be used as illustrations.

PHS 513 Financial Management of Health Services (3 hours) This course explains important financial management techniques applicable to health care settings. Course materials will include the language and function of financial management, analysis of an organization's financial position, management of working capital and current assets, budgeting, and the use of financial data for decision making. Students will further their knowledge of computerized information systems through class exercises. Emphasis will be placed on the application of techniques to health services organizations. Students will synthesize techniques through completion of an analysis project and/or research paper in health economic and financing. Prerequisite: HCA 450 or instructor approvals.

PHS 514 Health Management Information Systems (3 hours) This course introduces students to systems in managing for-profit and not-for-profit organizations (such as manufacturing, banking, and health care organization) and emphasizes the role of information systems to increase productivity, to improve quality of products and services, and to insure overall effectiveness or organizational operations. Appropriate application software will be used to analyze cases and complete the class project. Prerequisite: Basic knowledge of computing skills.

PHS 515 Marketing Public Health and Strategic Planning (3 Hours) This course examines an overview of the strategic planning process and state-of-the-art marketing applications used by community health organizations. Marketing is viewed as a social change opportunity for public health practitioners and the analysis and design of market plans are studied. As an extension of the marketing audit, several key planning strategies and methods are critically reviewed for their relative value to managers and stakeholders in decision making of long-range and short-term system futures.

Epidemiology and Biostatistics

PHS 521 Advanced Seminar in Epidemiology (3 hours) The hallmark of the course is designing and presenting an epidemiological research study. Emphasis will be placed on the major types of epidemiological study designs: cross-sectional, case-control, cohort, and intervention studies. In addition, diagnostic studies to evaluate screening programs will be discussed. Prerequisite: PHS 505.

PHS 522 Multivariate and Probabilistic Statistics (3 hours) This course addresses modeling and practical application of statistical principals in data analysis. Statistical Software packages such as SAS and SPSS will be used. Topics include probability distributions, simple linear regression, multiple linear

regression, log linear modeling, logistic regression, Poisson, and Cox-Proportional Hazard modeling. Prerequisites: PHS 503 and PHS 505.

PHS 523 Chronic and Infectious Diseases Epidemiology (3 hours) This course introduces students to various fields of practical epidemiology. This course primarily addresses the epidemiology of cancer, cardiovascular, and infectious diseases. Prerequisite: PHS 505.

PHS 524 Statistical Methods for Applied Epidemiology (3 hours) This course reviews the basic statistical tools used in epidemiology research. The course includes: sampling and sample size determination, methods to compute confidence intervals and p-values for key epidemiological measures of association, and an overview of regression and statistical methods for analysis of data. Prerequisite: PHS 503 and PHS 505.

PHS 525 Epidemiology of Minority and Special Populations (3 hours) This course introduces the salient features of conducting epidemiological research in special populations with a particular emphasis on African Americans. This course covers the epidemiology of diseases and conditions affecting racial/ethnic minorities, children and the elderly. Other components include psychological and behavioral factors and preventive services. Prerequisite: PHS 505.

Behavioral Health Promotion and Education

PHS 531 Health Behavior, Promotion and Education (3 hours) This course provides a comprehensive understanding of health promotion and health education, concepts and applications. It offers students an opportunity to develop a broad understanding of social, cultural and psychological factors as they affect health and health-related behaviors and outcomes at individual, family, and group/community levels. Areas of responsibilities for health educators, as required by the National Commission for Health Education Credentialing (NCHEC) body, are discussed, and students gain competencies essential to pass the Certified Health Education Specialist (CHES) examination. The CHES related skills and competencies in combination with an MPH degree create better job opportunities at state and national levels.

PHS 532 Community and Patient Health Education (3 hours) This course examines professional health education practices in most community and individual settings where opportunities exist to acquire and behaviorally deploy personal health knowledge into action. Health risk factors are studied using the socioecological paradigm as applied to a selected community. Furthermore, the roles of the health educator as a community advocate, facilitator and collaborator are explored. Patient education in clinical settings focuses on equipping clinical personnel in the competencies and skills of health promotion techniques. Prerequisites: Completion of all MPH core courses and PHS 531.

PHS 533 Wellness and Maternal Child Health Promotion (3 hours) This course provides the historical perspective, organization and delivery of maternal child health services as well as an analysis of the major health determinants associated with the system of health care and health promotion for this population. Ethical issues, cultural diversity, special and vulnerable populations, disparate health outcomes, environmental health and nutritional issues will be emphasized while highlighted strategies to overcome barriers in health promotion and provision of care.

PHS 534 Communication and Health Education Marketing (3 hours) This course provides an overview of communication and marketing within a health education context. This course examines communication in health care settings, public health campaigns, and cultural differences in communication. Prerequisites: Completion of all MPH core courses, and PHS 531.

PHS 535 Behavioral Change Program Strategies (3 hours) This course examines the behavioral science theories which underpin the fundamental ingredients of most change strategies in continuous health program development. Several models/theories that are designed to alter behaviors are discussed. Theories and models of health perception, health promotion and education along and program planning, research and evaluation are explored. Theories of individual health behavior (e.g., Health Belief Model); interpersonal theories (e.g., Social Cognitive Theory), and models for community level behavioral change (e.g., PRECEDE-PROCEDE Model) are discussed; and their applications are shown through research, practices, and actual projects that students undertake in targeted populations. Students also evaluate both classroom case studies and the actual community implementation of health behavior change programs. Prerequisite: PHS 531 Health Behavior Promotion and Education.

Electives

PHS 516 Human Resources Management in Public Health (3 hours) This course examines the role of healthcare administrators and supervisors with respect to personnel interviewing, selection, orientation, performance counseling and appraisal; staff development; leadership development; and related functions of human resources management. Issues of job analysis, labor relations, performance appraisal, training and development, and other concerns are studied in relationship to the human resource process system.

PHS 517 Managed Care Networks and Public Health (3 hours) This course introduces the dynamic impact that managed care has had on the delivery of healthcare services and cost containment features of the health plans that thrived in the 1990's. The student will become familiar with all aspects of managed care (HMOs, PPOs, and POS) from effectiveness measurement of these health care plans medical/loss ratios, profit margins and outcomes measurement to the effect on access to quality healthcare services.

PHS 518 Policy Analysis of Health Legislation and Regulation (3 hours) This course identifies public policies that direct and or influence health care in the United States. Health legislation and regulations that support the implementation of policies will be analyzed. Policies will also be analyzed to determine their strategic importance and implications for individuals, communities and organizations.

PHS 519 Health Program and Evaluation (3 hours) This course provides an overview of theories and application of program planning, implementation, and evaluation for public health programs while emphasizing essential components of program planning models and a range of evaluation objectives and designs.

PHS 526 Environmental and Occupational Epidemiology (3 hours) This course introduces the student to the application of epidemiological principles to environmental and occupational health problems. Topics include exposure assessment, study design, and conduct of epidemiological studies in the environment and work place, and the effect on the healthy worker. Also examined will be epidemiological research on a range of known environmental and occupational hazards. Prerequisite: PHS 505.

PHS 527 Occupational Disease and Injury Prevention (3 hours) This course introduces students to concepts and challenges of work related diseases and injury prevention. Students learn a systematic approach to the identification and clarification of occupation risks and hazards and the quantification of exposure effects relationships with a view towards prevention.

PHS 528 Genetic Epidemiology (3 hours) This course focuses on the pattern of disease incidence in populations in order to infer the genetic basis of the disease. This course includes studying the extent to which environmental risk factors interact with genetic risk factors to increase susceptibility and manifestation of disease. Prerequisite: PHS 505.

PHS 529 Psychosocial Epidemiology (3 hours) This course provides an overview of the literature incorporating social and personality factors, cultural influences upon individual behavior, stress, and related psychosocial factors as determinants of health. Health and illness determinants are multi-factorial and enmeshed in the social fabric and psychologic constitution of the person and may involve a complex interaction of the person and environment. Psychosocial epidemiological models of chronic disease will be discussed. Prerequisites: PHS 505.

PHS 536 Health Education Competencies for Clinical Professionals (3 hours) This course examines the principles, methods and skills of education and promotion practices in alternative health services and medical care settings. Students learn why and how health professionals are able to teach and influence patient clientele roles and behaviors in supportive healing interventions of the healthcare environment. Clinical applications of health promotion and education address risk factor

assessment, self-care, patient-program readiness, institutional decision making, consumer culture, and emotional stress management. This study leads to the professional acquisition of skills to design and implement effective program planning, evaluation, and training of healthcare personnel and their patients.

PHS 537 Medical Anthropology in Public Health (3 hours) This course explores the fundamental relationship of anthropology to the art and science of medicine and public health, broadly defined. Readings and lectures emphasize the impact of anthropology on current modes of biomedical research; alternative systems of health and healing including culture-bound syndromes; the role of anthropologists in biomedicine and public health; critical medical anthropology and the political economy of health; and the interplay between anthropology and other components of public health. Concepts of efficacy, outcome, and healing are also examined.

PHS 539 Pain Issues in Public Health (3 hours) This course exposes students to the cross-cultural and public health aspect of pain and pain related issues like assisted suicide, substance abuse, narcotic regulation, alternative therapy, palliative care and disability. Students will explore the roadblocks to better pain management as they relate to the public and providers, discuss evidence based outcome measures, cost control issues, and pain in special groups including minority populations.

PHS 541 Environmental Management and Industrial Hygiene (3 hours) This course introduces students to the basics of Environmental Management and Industrial Hygiene. The course will be divided into two parts. Part I will help students understand the regulatory approaches, effects of pollution and the source of pollutants, and the various environmental management issues. Part II will place an emphasis on control of occupational health hazards that arise as a result of work or during work. Prerequisites: PHS 504.

PHS 542 Environmental and Occupational Health Risk Assessment (3 hours) This course assists the student in developing the skills necessary to assess, evaluate and recommend control measures to reduce environmental and occupational risks. This course will involve the study of chemical exposures and the harmful actions of chemicals on humans. Students will study scientific methods currently employed to assess human risks to environmental and occupational contaminants.

PHS 543 Occupational Health and Safety Management (3 hours) This course introduces the field of safety, prevention management, and issues in occupational health. This course will provide the opportunity for the student to apply public health principles and decision making skills with relation to prevention of injury and disease, health promotion, and protection of worker populations from occupational hazards.

PHS 544 Environmental and Occupational Toxicology (3 hours) This course examines the basic

concepts of toxicology and demonstrates how the basic principles are applied in occupational and environmental regulations. Toxicology, the study of the adverse effects of chemical or physical agents on biological systems, is a pillar of both clinical medicine and public health. Students will acquire the armament to develop, interpret, and utilize toxicological data for solving environmental and occupational health problems.

PHS 545 Environmental Policy and Occupational Health Regulations (3 hours) This course examines Federal laws and regulations concerning environmental and occupational health. This course will introduce students to State environmental policies and occupational health regulations while and emphasize implementation and compliance with environmental and occupational health regulations and laws. Prerequisites: PHS 543.

PHS 551 MCH-Nutrition Program Management (3 hours) This course provides application of core public health functions to the field of maternal and child health and nutrition. Emphasis is on assessing community nutrition-related assets and problems, principles of grant writing, program planning, administration, budgeting, and evaluation; and leadership skills. Use of the media and social marketing is also covered.

PHS 552 Women's Health and Preventive Medicine (3 hours) This course addresses determinants of health, morbidity, and mortality across several transitions of the life-span of women; explores biological, behavioral, environmental and societal influences; and provides an integrated approach to women's health issues and public health policy, practice, and research.

PHS 553 Child - Adolescent Health and Preventive Medicine (3 hours) This course analyzes child and adolescent public health issues, stressing the social, developmental, and environmental determinants of health status. The interrelationship of developmental issues, risk behavior, care-seeking behavior, and the effectiveness of adolescent programs and services will be examined.

PHS 554 MCH/Nutrition Programs and Public Policy (3 hours) This course integrates maternal and child health and nutrition programs and policies to provide the foundation for advocacy and the development of health services for women, children, and their families. The historical foundation, organization, and delivery of maternal and child health and nutrition services and the influence of public policy are reviewed. Major issues such as cultural sensitivity, financing, unique needs of vulnerable groups (such as minority populations and children with special health care needs) and the social and environmental influences on health and the delivery of services are covered.

PHS 555 Maternal and Child Nutrition (3 hours) This course presents important aspects of growth and development, nutritional requirements and concerns, and dietary recommendations from conception to adulthood. Emphasis is on the special nutritional

concerns of minorities and the medical, psycho-social, and environmental factors influencing nutritional status. Topics in current controversies, chronic disease prevention, nutrition education, and health promotion are also covered.

PHS 556 Cultural Nutrition and Health Disparities (3 hours) This course addresses food and its role in the culture and food beliefs and practices of various religious and ethnic groups in the United States. It emphasizes the impact of culture, socio-economic differences, and other factors on food practices and health beliefs to prepare students to provide culturally sensitive services to communities and clients.

PHS 557 Sports, Wellness, and Contemporary Nutrition Issues (3 hours) This course examines the scientific basis for diet and exercise recommendations, nutritional needs and concerns of athletes, ergogenic aids and nutrition supplements, eating disorders, health benefits and risks of vegetarian diets, and promotion of physical activity and healthy eating habits. Current nutrition issues and controversies covered include research in weight management and obesity treatment, high protein, low carbohydrate and other weight loss diets, health benefits of phytoestrogens and functional foods, food irradiation and biotechnology, dietary supplements and alternative nutrition and herbal therapies. Modern and ancient approaches to diet and exercise are explored.

PHS 561 Administration of Integrated Health and Hospital Systems (3 hours) This course focuses on the complex and essential interrelationships that exist within and among healthcare entities. The course will (1) identify and study components of the healthcare system (hospitals, clinics, home care agencies, hospice care, emergency medical services, etc.) and discuss the interrelationships necessary for their survival and (2) explore the variety of arrangements (networks, systems, alliances, etc.) used to integrate and manage these entities. The course illustrates that survival within the healthcare industry is largely predicted upon an entity's ability to partner with other healthcare providers.

PHS 562 Nursing and Mental Health Facilities Administration (3 hours) This course focuses on the essential function of management and administration within nursing and mental health facilities. Attention will be given to the multitude of facets of management and administration and the theoretical and practical foundation of each facet. Attention will also be given to environmental factors, both internal and external, that managers must attend to within the nursing and mental health environment.

PHS 563 Primary Care and Group Practice Management (3 hours) This course focuses on management issues pertaining to the primary care and group practice settings in healthcare. This course will deeply explore a variety of management aspects, stressing management implementation strategies and techniques in the practice setting.

PHS 564 Comparative and International Health Systems (3 hours) This course introduces important methodological approaches to comparative analyses.

For analytical purposes, the health systems of the world will be classified into four major categories. Important examples from each of these categories will be discussed. Specific objectives of the course are: to discuss the health system categories and their determinants; to identify important components of a health system; and to illustrate the health system categories by selecting country case studies. Health care reform proposals of various countries will also be discussed.

PHS 565 Health Care in Developing Countries (3 hours) This course introduces the students to health care in settings with severe resource constraints, rapid population growth, critical competing priorities, poor data collection, and high disease burden. Students are prepared for effectiveness in international health by studying infectious disease control, nutrition, environmental health, health practices, and needs for sustainability as they apply to the tropical setting.

PHS 571 Statistical Theory (3 hours) This course is an introduction to the mathematical foundation of statistics and statistical theory. It provides an in depth coverage that includes probability theory, probability distributions, random variables, theories of statistical testing, interval estimation, and hypothesis testing. The course starts with defining a sample space and the random variable then expounds to include distribution and density functions and concludes with applications of hypothesis testing and confidence interval estimation. Prerequisites: PHS 503 or an equivalent introductory course in biostatistics.

PHS 572 Statistical Computer Applications (3 hours) The purpose of this course is to teach two statistical computing applications: Statistical Packages for the Social Sciences (SPSS) and Statistical Analysis Software (SAS). This course covers the basic and intermediate applications of these two statistical programming applications. For SPSS, students will learn the following: the basic components of the software (input, analysis and output interfaces), using the data editor, creating SPSS data file, create and recode variables, and set properties of variables. For SAS, students will learn the following: components to a SAS program, syntax of SAS program, comment statements, the various features of the Data Step, Procedure (PROC) Steps, common features of both Steps, and SAS Utilities will be covered in much detail. Students will apply the knowledge and skills acquired to the generation of statistical reports using descriptive statistics and related charts. The common feature of the PROC Step of statistical methods ranging from Descriptive Statistics through Analysis of Variance.

PHS 587 Special Topics in Public Health (1-2 hours) This course enables students to pursue a topic or project of their choice in Public Health, such as health disparities, prevalent illnesses in Mississippi and the US, e.g., diabetes and obesity, HIV/AIDS, cardiovascular ailments, and stroke; international health systems; interventional studies in public health; and tropical diseases, e.g., leprosy, onchocerciasis, trypanosomiasis, malaria, and yellow fever. The

course provides MPH students additional research methods training and skills in their public health concentration. Consent of the department chair required.

PHS 598 Contemporary Issues in Public Health (1-3 hours) This course highlights selective topics in public health relevant to today's changing public health forum and environment. The topics are designed to encompass a broad range of public health issues. Thus, topics for discussion are addressed within each of the following core areas of public health: Behavioral Health, Biostatistics, Environmental Health, Epidemiology and Health-Related Conditions, and Health Care Planning and Organization.

PHS 599 Independent Study (1-3 hours) This is an individual directed study in a specific concentration of public health selected by the student and approved by the professor.

PHS 601 Advanced Biostatistics and Computer Science Applications (3 hours) This course is an advanced, intermediate level course in biostatistics with emphasis on statistical and analytical techniques important to researchers and practitioners within the public health setting. This course provides in depth coverage of biostatistical methods including statistical inference, sample size calculation, and multivariate regression techniques. This course is offered as an advanced PSH 701 with modification in the theoretical exercises and course expectations for examinations. Prerequisites: PHS 503, PHS 506 and PHS 572.