

TUSKEGEE UNIVERSITY
COLLEGE OF VETERINARY MEDICINE, NURSING AND ALLIED HEALTH
GRADUATE PUBLIC HEALTH PROGRAM (GPHP)

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Degree Offered: **(1) Master of Public Health (MPH)**

 (2) Master of Science in Public Health (MSPH)

* For additional information please refer to the Graduate Handbook.

The Master of Public Health (MPH) and the Master of Science in Public Health (MSPH) degrees offered in the Graduate Public Health Program at Tuskegee University are often considered to be equivalent. At Tuskegee University, they are also similar public health degrees with the simple distinction that the MPH is a professional degree that will be favorable to the health care practitioner and/or in administrative public health. The MSPH is an academic degree program that interests graduates who seek to expand their public health career with transition into further advanced studies such as is applicable in the pursuit of the PhD degree.

Admission Requirements:

- ✓ Applications must have completed the B.S. degree from an approved college or university.
- ✓ Applicants must have a Cumulative GPA of 3.0 or better
- ✓ A Completed Online Application and Application Fee
- ✓ An Official Transcripts from all colleges/universities (International Students must have transcripts through World Education Services-WES)
- ✓ WRE Scores at least 540 (old) or 156 (new), less than 5 years old
- ✓ A Personal Statement
- ✓ 3 Recommendation Letters
- ✓ Resume or Curriculum
- ✓ *ETS/WES Scores (International students only)

Graduation Requirements:

- ✓ Core Courses: 21 credit hours
- ✓ Elective Courses: 22 credit hours
- ✓ Research/Thesis: 6 credit hours
- ✓ Admission to Candidacy
- ✓ Passing of the Final Oral Examination or satisfactory completion of the Practicum

Advisory Committee:

During the first semester of his/her study in the MPH and MSPH degree program, the student and his/her Major Professor must recommend to the Director of the program, for approval, an Advisory Committee consisting of a minimum of four members including the Major Professor and the Director. The Advisory Committee shall also serve as the Examination Committee.

Core Courses (24 credit hours)

Course Number	Course	Credit
MBIO 0660	Biomedical Statistics	3
MSPH 0614	Principles of Epidemiology	3
MSPH 0600	Environmental Health Sciences	3
MSPH 0610	Psychosocial Determinants of Health	3
MSPH 0605	Introduction to Health Administration, Policy and Law Health	3
MSPH 0615	Disparities/Inequities	3
MBIO 0700	Research Thesis/Practicum	6

Elective Courses

Course Number	Course	Credit
MBIO 0660	Biomedical Statistics	3
MSPH 0600	Environmental Health Sciences	3
MSPH 0610	Psychosocial Determinants of Health	3
MSPH 0605	Introduction to Health Administration, Policy and Law Health	3
MSPH 0615	Disparities/Inequities	3
MBIO 0700	Research Thesis/Practicum	6
MSPH 626	Public Health	3
IBSC 0601	Bioethics	3
MBIO 0600	Seminar I	1
MBIO 0601	Seminar II	1

Course Scheduling

Year One			
Fall Semester (13 credit hours)		Spring Semester (13 credit hours)	
MBIO 660 Biomedical Statistics	3	MSPH 626 Public Health	3
MSPH 610 Psychosocial Determinants of Health	3	MBIO 661 Advanced Epidemiology	3
MSPH 614 Principles of Epidemiology	3	IBS 601 Bioethics	3
MSPH 615 Health Disparities/Inequities	3	MSPH 600 Environmental Health Sciences	3
MBIO 0700 Seminar I	1	Seminar II	1
Summer Session			
Thesis/Practicum 6 Credit Hours			
Year Two			
Fall Semester (14 credit hours)		Spring Semester (0 credit hours)	
MSPH 620 Epidemiology of Infectious Diseases	3	MBIO 752 Continuous Registration	0
MSPH 605 Introduction to Health Administration, Policy and Law	3		
Path 0669 Risk Analysis	3		
MSPH 700 Proposal Writing and Grant Management	2		
Elective	3		

Transfer Credits:

The Advisory Committee of the graduate student may recommend the transfer of credit hours for up to 9 hours for graduate courses taken by the student at Tuskegee University as part of another graduate program or at any other approved institution. Transfer credits may be recommended under both core and elective categories.

Admission to Candidacy:

After completing 15 credits of course work, the student is eligible to submit a completed application for consideration of Candidacy to the Director and final approval by the Dean of Graduate Studies and Research.

Seminars:

A student pursuing either the Master of Public Health or the Master of Science of Public Health degree must pursue two seminars and present at least two seminar presentations. The seminar courses include practical examples of the application of the proper conduct of research; issues with copy right violation and plagiarism; interpretation of published work among other academic requirements including discussions on basic research methods, and a review of current research topics. Oral presentations are required.

Thesis:

The final draft of the thesis/dissertation in the case of the Thesis option must be filed with the student's Advisory Committee at least 30 days before the date listed in the university calendar for final copies to be submitted, and during the semester in which the student expects to graduate. The student must present to the Dean of Graduate Programs a "Preliminary Approval Sheet" (PAS) bearing the signature of the Major Professor before the final oral examination may be scheduled and before copies of the thesis/dissertation are distributed to members of the Examining Committee.

After the "Preliminary Approval Sheet" has been signed, it should be submitted to the Dean of Graduate Studies and Research before the final examination is scheduled and before the final draft of the thesis/dissertation is prepared for final approval. Approval of the thesis/dissertation in its final form rests with the Examining Committee.

Synopsis of Courses Taught in the MPH and MSPH Program

MSPH 0600. GRADUATE RESEARCH SEMINAR I. 1st Semester and Summer. Lect. 2, Lab 0, 2 credit. This course includes practical examples of proper conduct of research, issues with copy right violation, plagiarism, interpretation of published work among other academic requirements including discussions on basic research methods, and a review of current research topics. Oral presentations are and/or reports are required

MSPH 0601. GRADUATE RESEARCH SEMINAR II. 2nd Semester and Summer. Lect. 2, Lab 0, 2 credit. This course is a continuation of MBIO 600, and includes a review of current research topics. Oral presentations are required.

MSPH 0614. PRICIPLES OF EPIDEMIOLOGY. 1st Semester, Lect. 3, 3 credits. In this course, basic epidemiologic principles and methods as the pillars of public health will be emphasized. Test systems will be used in the prevention and control of diseases in populations. The full range of disease occurrence, including genetic and environmental causes for both infectious and non-infectious diseases will be covered. Students will be introduced to the theory, methods and body of knowledge of epidemiology and its basic principles and applications.

MSPH 0626 PUBLIC HEALTH. 2nd Semester, Lect. 2, Lab 0, 3 credits. This course provides students with basic and current insights into food safety, foodborne illnesses, and zoonotic diseases, and basic operation of municipal drinking and waste water treatment plants. Students will also be exposed to the emerging exotic diseases of animals and the Veterinary Information Network with in-class discussions, gaining exposure also to real-life public health issues via interaction with state and federal public health professionals, while learning to address public health-related community issues through classroom discussion.

MBIO 0660. BIOMEDICAL STATISTICS. 1st Semester. Lect. 3, Lab 0, 3 credits. The conceptual and theoretical basis of biomedical research design is examined. Appropriate statistical methods which correspond to and are consistent with the biomedical research design will be studied. These include both parametric and nonparametric methods. Descriptive statistics, probability distributions, comparative statistics (t test, ANOVA) and causal analysis (chi square, regression and other multivariate techniques) will

be covered with emphasis on inferential aspects of statistics and on the interpretation of results which would be rational and meaningful in biomedicine. Students will be exposed to the use of manual computational methods followed by the use of computerized statistical package for data analysis.

MBIO 0661. ADVANCED EPIDEMIOLOGY. 2nd Semester (alternate years). Lect. 3, Lab 0, 3 credits. This course will build upon the introductory course in Epidemiology (MBIO 0614). It will emphasize the analysis (both qualitative and quantitative) of the dynamics of health/ill health processes and interactions in populations, systematically. Retrospective and prospective studies, the use of epidemiologic models (both static and dynamic) and systems analysis techniques and other problem solving tools in analytical epidemiology will be presented and applied to selected cases. Independent study and developing a research paper on a selected epidemiologic topic will be encouraged.

IBS 0601: SPHERES of ETHICS and PUBLIC HEALTH. 1st Semester. Lect. 0, 3 unit.

This course will provide a philosophically grounded introduction to ethics. This introductory course discusses ethics evolution from theology and philosophy to ethics and includes, but not limited to: morality, virtual ethics, bioethics, and public health ethics. Ethical approaches to social justice will provide a unifying framework for examining public health, racial and ethnic health issues, health and health care disparities. The course introduces the students to programmatic and research strategies for shaping individual, group, community, public health and public policy.

MSPH-0600. ENVIRONMENTAL HEALTH SCIENCES, 2nd Semester. Lect. 3, 3 credits. This core course focuses on the basic human needs of clean air, water, and a safe food supply, Techniques on preventive health practices relative to the control of air quality, water, and consumer products, with an emphasis on environmental factors, basic public health concepts on disease causation and prevention, toxicology, especially carcinogenesis, and in infectious diseases and their implications on population growth will be introduced. Permission of Instructor.

MSPH-0605. INTRODUCTION TO HEALTH ADMINISTRATION, POLICY AND LAW, 1st Semester. Lect. 3, 3 credits. This core course focuses on administrative, policy and management issues that affect health practitioners and practices, focusing on access, cost and quality, using a multidisciplinary approach to healthcare structure, process and outcomes. Emphasis will be placed on health care system organizations, health care financing, national health insurance, long-term care, the role of government at the local, state and national levels in the US health care systems, and the role of government in encouraging quality care (Healthy People 2020). Permission of Instructor.

MSPH-0610. PSYCHOSOCIAL DETERMINANTS OF HEALTH, 1st Semester. Lect. 3, 3 credits. A core course on sociomedical approach enlisting anthropology, sociology, history, political science, social psychology, and moral philosophy in a multidisciplinary study of public health and medicine, examining critical issues in urban and rural health inequalities. The course draws upon assigned readings, lectures, and seminar sections that will allow students to apply the tools of social science to the analysis and formulation of public health programs and policies. Permission of Instructor.

MSPH-0615. HEALTH DISPARITIES/INEQUITIES, 1st Semester. Lect. 3, 3 credits. This cross-disciplinary course introduces students to issues on racial and ethnic health disparities, highlighting inequalities

among African American and other minority populations, and examining the causes and ways to reduce such health disparities in the US, by specifically looking at approaches at the individual, community and policy levels. The course provides an opportunity for students to acquire knowledge of the healthcare system, focusing on information dissemination, budget creation and financial management, inventory and progress monitoring relative to public involvement in health care issues, practices and policy making. Permission of Instructor.

MSPH-0620. EPIDEMIOLOGY OF INFECTIOUS DISEASES 1st Semester. Lect. 3, 3 credits. This core course will introduce the study of the epidemiology of infectious diseases of national and international importance. The course will emphasize methods used in outbreak investigation and molecular epidemiology, concepts in disease transmission and dynamics, epidemiologic study design, and disease surveillance. Course lectures provide general topics related to infectious disease epidemiology, with several specific diseases or disease processes examined in detail as examples for each major mode of transmission. Prerequisites: MBIO 0614 or the instructor's permission.

MSPH-0625. MULTIVARIATE METHODS, 2nd Semester. Lect. 3, 3 credits. This course provides students with statistical procedures for analyzing multivariate outcome data in health-related studies teaching logistic regression, Mantel-Haenszel procedures for 2x2 contingency tables and for stratified ordinal data; proportional odds model extension of logistic regression for ordinal data; Poisson regression, conditional logistic regression; and computing procedures for implementing methods. The course provides an opportunity for students to apply analysis of categorical data methods in epidemiological and clinical studies on specific health problems. Prerequisites: MBIO 0614, or biomedical statistics and permission of Instructor.

MSPH-0700. PROPOSAL WRITING AND GRANT MANAGEMENT, 1st and 2nd Semester. 2, 2 credits. The course provides an insight into grant writing, identifying funding sources, developing hypotheses for research grants, proposal preparation with needs assessment, identifying goals and objectives, performing evaluations and preparing budgets and obtaining project sustainability. The course also provides concepts on successful management of funded grants. Permission of Instructor.