

SCHOOL OF PUBLIC HEALTH

**MPH in Biostatistics**  
**Academic Year 2013-2014**  
**Program Profile**

Biostatistics is designed to train students in data management, statistical analysis, interpretation, and presentation of analytical results using computing technology. The concentration focuses on the methodologies and procedures of statistical analysis and research design. There are excellent career opportunities for students wishing to pursue positions in local, state, and federal health agencies, health and medical centers, health care and clinical research institutions, the pharmaceutical industry, and consulting. Applicants to this program are expected to have a background in college algebra and calculus.

**Biostatistics Concentration Competencies**

Competency Description
Translate mathematical and statistical foundations to biostatistics;
Design and critically evaluate study protocols in the health sciences
Design and apply comprehensive data management strategies for health-related studies
Identify and apply suitable statistical methods for data analyses
Effectively communicate statistical information to health practitioners and professionals
Understand and abide by strict ethical standards in health-related studies

## MPH Core Competencies

The Masters of Public Health degree program prepares students to address the following core competencies while advancing their knowledge of public health:

Competency	Competency Description
Public Health Knowledge & Skills	The MPH student will apply basic knowledge and skills of the core public health sciences that include: biostatistics, epidemiology, health management and policy, behavioral and community health, and environmental and occupational health, to the prevention of illness and injury and the promotion of population health.
Integration of Theory and Practice	The MPH student will demonstrate the effective integration of theory and practice related to public health issues that affect diverse populations, through a thesis or comprehensive examination and a practice experience.
Communication and Informatics	The MPH student will gather, organize, and manage data and information effectively to address public health issues through oral and written communications to diverse professionals and lay audiences.
Diversity and Culture	The MPH student will demonstrate the ability to interact with both diverse individuals and communities to produce or impact an intended public health outcome.
Professionalism	The MPH student will apply ethical principles to the practice of public health in a variety of settings, demonstrating personal integrity while embracing diverse communities.

**SEQUENCE OF COURSEWORK  
FULL-TIME TWO YEAR (FALL ENTRY)**

<b>FALL 2013</b>				
<b>TOTAL CREDIT HOURS: 12.5</b>				
<b>BIOS 5300</b>  BIOSTATISTICS FOR PUBLIC HEALTH 1  CREDIT HOURS: 3	<b>EPID 5300</b>  PRINCIPLES OF EPIDEMIOLOGY  CREDIT HOURS: 3	<b>BACH 5300</b>  THEOR FOUND OF IND & COM HLTH  CREDIT HOURS: 3	<b>HMAP 5300</b>  INTRO TO HEALTH MGMT AND POLICY  CREDIT HOURS: 3	<b>PHED 5197</b>  MPH PORTFOLIO  CREDIT HOURS: 0.5
<b>SPRING 2014</b>				
<b>TOTAL CREDIT HOURS: 12.5</b>				
<b>BIOS 5310</b>  BIOSTATISTICS FOR PUBLIC HEATH 2  CREDIT HOURS: 3	<b>BIOS 5314</b>  INTRO TO STAT PACKAGES  CREDIT HOURS: 3	<b>EOHS 5300</b>  ENVIRONMENTAL HEALTH  CREDIT HOURS: 3	<b>ELECTIVE</b>  CREDIT HOURS: 3	<b>PHED 5197</b>  MPH PORTFOLIO  CREDIT HOURS: 0.5
<b>SUMMER 2014</b>				
<b>TOTAL CREDIT HOURS: 3</b>				
<b>ELECTIVE</b>  CREDIT HOURS: 3				
<b>FALL 2014</b>				
<b>TOTAL CREDIT HOURS: 12.5</b>				
<b>BIOS 5312</b>  REGRESSION ANALYSIS  CREDIT HOURS: 3	<b>ELECTIVE</b>  CREDIT HOURS: 3	<b>ELECTIVE</b>  CREDIT HOURS: 3	<b>PHED 5000</b>  CERTIFIED IN PUBLIC HEALTH EXAM  CREDIT HOURS: 0	<b>PHED 5197</b>  MPH PORTFOLIO  CREDIT HOURS: 0.5
<b>SPRING 2015</b>				
<b>TOTAL CREDIT HOURS: 10.5</b>				
<b>BIOS 5297</b>  PUBLIC HEALTH PRACTICE EXPERIENCE  CREDIT HOURS: 1.5	<b>ELECTIVE</b>  CREDIT HOURS: 3	<b>ELECTIVE</b>  CREDIT HOURS: 3	<b>ELECTIVE</b>  CREDIT HOURS: 3	<b>BIOS 5001</b>  MPH COMPREHENSIVE EXAM  CREDIT HOURS: 0

THE SEQUENCE OF COURSEWORK REFLECTS REQUIRED COURSES THAT ARE GUARANTEED TO BE OFFERED (EXCLUDES ELECTIVES).