

# **BIOSTATISTICS, MPH**

#### **Overview**

The MPH in Biostatistics prepares students to assist in selecting a statistical design appropriate for the goals of the research, estimate sample size requirements, establish and maintain databases, select and conduct the appropriate analysis, and communicate the results of the analysis orally and in writing in the fields of public health. Coursework concentrates on developing these statistical skills through the use of actual datasets and computerized statistical software packages.

### **Program Competencies**

- · Apply appropriate statistical methods based on diagnostic analysis.
- · Utilize statistical tools for analysis of health science data.
- Calculate sample size and power for clinical trials and observational studies.
- · Manipulate large datasets, including data cleaning, data merging, and data transformation, for health science data.
- · Interpret and present the results of statistical analyses orally and in writing.

### Requirements

The MPH Degree in Biostatistics requires a total of 45 credits that includes:

Course ID	Title		
SPHTM Foundational Requirements			
SPHL 6020	Foundations in Public Health	3	
SPHL 6050	Biostatistics for Public Health		
SPHL 6060	IL 6060 Epidemiology for Public Health		
SPHL 6070	Health Systems Policy and Management	3	
SPHL 6080	Design Strategies in Public Health Programs	3	
<b>Biostatistics Course Requirements</b>			
BIOS 6040	Intermediate Biostatistics	3	
BIOS 6220	Database Management	3	
BIOS 7060	Regression Analysis	3	
BIOS 7080	Design of Experiments	3	
BIOS 7150	Categorical Data Analysis	3	
Electives			
Select 12 credits		12	
Additional Coursework			
SPHL 6000	Fundamentals of Interprofessional Collaboration & Practice	1	
SPHL 9980	Applied Practice Experience	1	
SPHL 7950	Integrative Learning Experience	1	
Total Credit Hours		45	

## **MPH in Biostatistics Model Course Schedule**

This is an example of a course schedule for a Fall start. Students work with their faculty and student success advisors to create a course schedule tailored to meet their individual needs.

Year	1
E-II	

Fall		Credit Hours
SPHL 6000	Fundamentals of Interprofessional Collaboration & Practice	1
SPHL 6020	Foundations in Public Health	3
SPHL 6050	Biostatistics for Public Health	3
SPHL 6060	Epidemiology for Public Health	3
SPHL 6070	Health Systems Policy and Management	3
	Credit Hours	12

Credit Hours



BIOS 6040	Intermediate Biostatistics	3
BIOS 6220	Database Management	3
SPHL 6080	Design Strategies in Public Health Programs	3
Elective		3
	Credit Hours	12
Summer Session		
SPHL 9980	Applied Practice Experience	1
SPHL 7950	Integrative Learning Experience	1
	Credit Hours	2
Year 2		
Fall		
BIOS 7150	Categorical Data Analysis	3
Elective		3
Elective		3
	Credit Hours	9
Spring		
BIOS 7060	Regression Analysis	3
BIOS 7080	Design of Experiments	3
Elective		3
	Credit Hours	9
	Total Credit Hours	45

#### **Contact**

To learn more about the department, visit https://sph.tulane.edu/bios/home (https://sph.tulane.edu/bios/home/). (https://sph.tulane.edu/bios/home/)