



# Public Health Data Science Concentration Degree Requirements

Master of Public Health, effective Fall 2023

Course Number	Course Name	Credits	Academic Term
<b>MPH Integrated Core</b>			
SPHG 711	Data Analysis for Public Health	2	Fall 1
SPHG 712	Methods and Measures for Public Health Practice	2	Fall 1
SPHG 713	Systems Approaches to Understanding Public Health Issues	2	Fall 1
SPHG 721	Public Health Solutions: Systems, Policy & Advocacy	2	Spring 1
SPHG 722	Developing, Implementing, & Evaluating Public Health Solutions	4	Spring 1
SPHG 701	Leading from the Inside-Out	2	Spring 1
	MPH Comprehensive Exam, embedded in SPHG 722 course		Spring 1
<b>MPH Practicum</b>			
SPHG 703	MPH Pre-Practicum Assignments	0.5	Spring 1
	MPH Practicum* (200 hours minimum)	0	Summer 1
SPHG 707	MPH Post-Practicum Assignments	0.5	Fall 2
<b>MPH Concentration</b>			
BIOS 512	Data Science Basics	3	Fall 1
BIOS 650	Basic Elements of Probability and Statistical Inference I	3	Fall 1
BIOS 635	Introduction to Machine Learning	3	Spring 1
BIOS 645	Principles of Experimental Analysis	3	Spring 1
EPID 710	Fundamentals of Epidemiology	3	Fall 2
<b>Electives</b>			
	Elective (Graduate-Level Course)	3	
	Elective (Graduate-Level Course)	3	
	Elective (Graduate-Level Course)	3	
<b>MPH Culminating Experience</b>			
BIOS 992	Data Science MPH Culminating Experience	3	Spring 2
<b>MPH Degree Total</b>		<b>42</b>	
Course descriptions can be found in the University course catalog: <a href="https://catalog.unc.edu/courses/">https://catalog.unc.edu/courses/</a>			
Updated March 2023			

Please note that core course sections 973 are for online students in our MPH@UNC degree only and core course sections 02W are for MPH students in our Asheville MPH degree only. (Chapel Hill residential MPH students should register for all other sections). Please note that Pass/ fail courses including "GRAD" courses do not count towards your degree credits.

\*Public Health Data Science: Students should work on a project that involves the application of data science skills.



# Public Health Data Science Concentration Required Course Plan & Sequence

Master of Public Health, effective Fall 2023

Course Number	Course Name	Credits	Degree Requirement
<b>Fall 1</b>			
SPHG 711	Data Analysis for Public Health	2	Core
SPHG 712	Methods and Measures for Public Health Practice	2	Core
SPHG 713	Understanding Public Health Issues	2	Core
BIOS 512	Data Science Basics	3	Concentration
BIOS 650	Basic Elements of Probability and Statistical Inference I	3	Concentration
<b>Semester Hours</b>		<b>12</b>	
<b>Spring 1</b>			
SPHG 721	Public Health Solutions: Systems, Policy & Advocacy	2	Core
SPHG 722	Developing, Implementing, & Evaluating Public Health Solutions	4	Core
SPHG 701	Leading from the Inside-Out	2	Core
SPHG 703	MPH Pre-Practicum Assignments	0.5	Practicum
BIOS 635	Introduction to Machine Learning	3	Concentration
BIOS 645	Principles of Experimental Analysis	3	Concentration
	MPH Comprehensive Exam, embedded in SPHG 722 course		Degree Milestone
<b>Semester Hours</b>		<b>14.5</b>	
<b>Summer 1</b>			
	MPH Practicum* (200 hours minimum)	0	Practicum
<b>Fall 2</b>			
SPHG 707	MPH Post-Practicum Assignments	0.5	Practicum
EPID 710	Fundamentals of Epidemiology	3	Concentration
	Elective (Graduate-Level Course)	3	Elective
	Elective (Graduate-Level Course)	3	Elective
<b>Semester Hours</b>		<b>9.5</b>	
<b>Spring 2</b>			
BIOS 992	Data Science MPH Culminating Experience	3	Concentration
	Elective (Graduate-Level Course)	3	Elective
<b>Semester Hours</b>		<b>6</b>	
<b>MPH Degree Total</b>		<b>42</b>	
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