



Public Health Data Science Concentration Degree Requirements

Master of Public Health, effective Fall 2024

Course Number	Course Name	Credits	Academic Term
MPH Integrated Core			
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
MPH Practicum			
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
MPH Concentration			
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
Electives			
	Elective (Graduate-Level Course)	3	
	Elective (Graduate-Level Course)	3	
	Elective (Graduate-Level Course)	3	
MPH Culminating Experience			
BIOS 992	Data Science MPH Culminating Experience	3	Spring 2
MPH Degree Total		42	
Course descriptions can be found in the University course catalog: https://catalog.unc.edu/courses/			
Updated June 2024			

Click [here](#) to see if your concentration has specific Practicum requirements. The Comprehensive Exam is embedded in SPHG 722 – click [here](#) for more Comp. Exam information. Reminder that electives must be 400+ level for Gillings courses and 500+ level for any other UNC course. Please note that MPH@UNC students can only register for 973 sections and Place-Based Health (Asheville) can only register for 299 sections – this includes electives. For more details on Gillings MPH policies and procedures visit the [MPH Student Handbook](#)



Public Health Data Science Concentration

Required Course Plan & Sequence

Master of Public Health, effective Fall 2024

Course Number	Course Name	Credits	Degree Requirement
Fall 1			
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
Semester Hours		12	
Spring 1			
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
Semester Hours		14.5	
Summer 1			
	MPH Practicum* (200 hours minimum)	0	Practicum
Fall 2			
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
Semester Hours		9.5	
Spring 2			
BIOS 992	Data Science MPH Culminating Experience	3	Concentration
	Elective (Graduate-Level Course)	3	Elective
Semester Hours		6	
MPH Degree Total		42	
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