

# MASTER OF SCIENCE IN HEALTH DATA SCIENCE

The following requirements must be fulfilled: 36 credits, including 18 credits in required courses, 16 credits in elective courses, and a minimum of 2 credits in research and thesis coursework.

\* PUBH 6080 is waived for students who have a prior degree from a Council on Education for Public Health accredited school or program in public health.

Code	Title	Credits
<b>Required</b>		
18 credits in required courses.		
PUBH 6080	Pathways to Public Health *	
PUBH 6850	Introduction to SAS for Public Health Research	
PUBH 6851	Introduction to R for Public Health Research	
PUBH 6852	Introduction to Python for Public Health Research	
PUBH 6854	Applied Computing in Health Data Science	
PUBH 6860	Principles of Bioinformatics	
PUBH 6868	Quantitative Methods	
PUBH 6884	Bioinformatics Algorithms and Data Structures	
PUBH 6886	Statistical and Machine Learning for Public Health Research	
<b>Electives</b>		
16 credits in pre-approved courses selected from the following:		
PUBH 6859	High Performance and Cloud Computing	
PUBH 6861	Public Health Genomics	
PUBH 6867	Health Data Visualization	
PUBH 6894	Research Analytics	
PUBH 8878	Statistical Genetics	
PUBH 8885	Computational Biology	
<b>Required research/thesis courses</b>		
A minimum of 1 credit must be taken in each PUBH 6897 and PUBH 689. Any additional credits count as elective credits.		
PUBH 6897	Research in Biostatistics and Bioinformatics	
PUBH 6898	Master of Science Thesis	