## DUAL BACHELOR OF SCIENCE WITH A MAJOR IN HEALTH DATA SCIENCE AND MASTER OF SCIENCE IN THE FIELD OF HEALTH DATA SCIENCE, BIOINFORMATICS CONCENTRATION

The Milken Institute School of Public Health offers a dual bachelor of science with a major in health data science (http://bulletin.gwu.edu/public-health/biostatistics-bioinformatics/bs-health-data-science/) (BS) and master of science in health data science, bioinformatics concentration (http://bulletin.gwu.edu/public-health/biostatistics-bioinformatics/ms-health-data-science-applied-bioinformatics-concentration/) (MS) degree. The program allows students to take up to 9 graduate credits as part of their undergraduate degree, thereby decreasing the number of credits normally required for the master's degree. All requirements for both degrees must be fulfilled.

Students interested in the dual degree program should confer with the graduate advisor. Visit the program website (https://business.gwu.edu/four-plus-one/) for additional information.

Credit sharing: 9 credits

Code Title Credits

MS courses taken during the BS program and corresponding BS courses waived:

PUBH 6854 Applied Computing in Health Data Science

One of the following BS courses is waived:

CSCI 1011 Introduction to Programming with Java

or CSCI 1012 Introduction to Programming with Python

or PUBH 4201 Practical Computing

PUBH 6884 Bioinformatics Algorithms and Data

Structures

One of the following BS courses is waived:

CSCI 1112 Algorithms and Data Structures

or PUBH 4202 Bioinformatics Algorithms and Data Structures

PUBH 6860 Principles of Bioinformatics

or PUBH 6861 Public Health Genomics

or PUBH 6886 Statistical and Machine Learning for Public Health

Research

One of the following BS courses is waived:

CSCI 4364 Machine Learning

PUBH 3201 Introduction to Bioinformatics

PUBH 3202 Introduction to Genomics

Visit the BS in health data science (https://publichealth.gwu.edu/programs/health-data-science-bs/) and MS in health data science (https://publichealth.gwu.edu/programs/health-data-science-ms/) program websites for additional information about the individual programs.