

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

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.

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

PUBH 6854	Applied Computing in Health Data Science
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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
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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
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