

HEALTH DATA SCIENCE (GRADUATE CERTIFICATE)

Code	Title	Credits
HDS 532	Data Visualization	3
Total Credits		15

Contacts

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Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/population-health/degrees-programs/health-data-science.html>)

Program Description

Health Data Science (previously known as Population Health Intelligence) is an ever-evolving multi-disciplinary field that involves using statistical inference, algorithmic development, and technology to make insights about data.

To uncover actionable insights, skilled healthcare data scientists are needed to:

- Combine large disparate data sources
- Build statistical and predictive models
- Create effective data visualizations
- Communicate findings to technical and non-technical audiences

Graduate Certificate

The Graduate Certificate focuses on the foundations of HDS. This option contains five online courses and can be completed in one year.

Learning Goals/Outcomes

The HDS program prepares graduates to be successful in the ever-changing healthcare environment that is driven by data and analytics by preparing them to:

Graduate Certificate

- Explores the vital roles of data, information, and information systems in the implementation and evaluation of healthcare and value-based care initiatives
- Provides a comprehensive overview of data science, the practice of obtaining, modeling and interpreting data
- Adopt data visualization techniques that contribute to effective presentations and dashboards
- Provides a foundation for population health beginning with a working definition, incorporating public health science and policy.

Curriculum: 1 year, 15 credits

Code	Title	Credits
Graduate Certificate		
AHE 501 or POP 500	Economics of Health Insurance Essentials of PopulationHealth	3
AHE 502	Statistics I	3
HDS 501	Health Informatics & Analytics	3
HDS 518	Data Science I	3