

# INTRODUCTORY HEALTH DATA SCIENCE, POST- BACCALAUREATE CERTIFICATE

Saint Louis University's introductory health data science post-baccalaureate certificate is a 12-credit graduate-level program to provide students with foundational knowledge and practical skills in health data science. The curriculum includes coursework in programming, data management and basic analytics, all tailored to health-related applications. The certificate is ideal for students and professionals seeking to enter the field of health data science, build core competencies, or enhance their ability to work with health data in clinical, research, or public health settings.

All courses included in the certificate are already part of the existing Master of Science in Health Data Science program (<https://catalog.slu.edu/colleges-schools/medicine/health-outcomes-research/health-data-science-ms/>) at SLU. The program is designed to support a broad and diverse student population — including nontraditional and working learners — and serves as a valuable standalone credential or a steppingstone into the full M.S. degree.

## Admission Requirements

- Complete Application form
- Transcripts from most recent degree(s)
- Résumé or curriculum vitae
- GRE not Required

## Learning Outcomes

1. Graduates apply appropriate statistical methods at a basic level.
2. Graduates will effectively communicate the results of analyses at a basic level.
3. Graduates will apply appropriate data-management strategies at a basic level.

## Requirements

Code	Title	Credits
HDS 5000	Foundations in Health Data Science	3
ORES 5160	Data Management and Programming in Healthcare	3
HDS 5310	Analytics, Statistics & Visualization Methods in Health Data Science	3
HDS 5330	Predictive Modeling and Health Machine Learning	3
<b>Total Credits</b>		<b>12</b>

## Roadmap

This roadmap is just one example of a semester-by-semester plan of study for this program. There are other plans students can and do take. The plan of study for each particular student is established in

consultation with each student's academic advisor; *this roadmap does not replace academic advising appointments.*

Roadmap notes:

- This Roadmap assumes full-time enrollment unless otherwise noted.
- Courses/Milestones marked with an "!" are critical and must be completed in the semester listed in the Roadmap to ensure a timely graduation.
- Course availability and sequencing are subject to change.

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
HDS 5000	Foundations in Health Data Science	3
ORES 5160	Data Management and Programming in Healthcare	3
<b>Credits</b>		<b>6</b>
<b>Spring</b>		
HDS 5310	Analytics, Statistics & Visualization Methods in Health Data Science	3
HDS 5330	Predictive Modeling and Health Machine Learning	3
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>12</b>

## Contact Us

For more information about this program, please call 314-977-8062 or email [somanalytics@health.slu.edu](mailto:somanalytics@health.slu.edu) ([somanalytics@slu.edu](mailto:somanalytics@slu.edu)).