

# HEALTH ANALYTICS, MS

Students are required to complete 12 courses to earn the degree. The curriculum covers one entry level course (taken within first two quarters of the program) based on prior experience. Programming for Health Analytics entry course for students without a programming background and Introduction to Clinical Thinking entry course for students without clinical or healthcare experience. There are eleven core courses including a practicum course. Review curriculum details and elective choices while you consider applying to this program. Current students should refer to curriculum requirements in place at time of entry into the program.

## Curriculum

Course	Title
<b>Entry Courses (1 unit)</b>	
Complete one entry course in your first or second quarter of the program. <sup>1</sup>	
MSHA 401-DL or MHI 402-DL	Programming for Health Analytics Introduction to Clinical Thinking
<b>Core Courses (11 units)</b>	
MSHA 403-DL	Introduction to American Healthcare, Digital Health, and Analytics
MSHA 405-DL	Data Literacy and Analytics in Healthcare
MSHA 407-DL	Data Security, Ethics and Governance
MSHA 409-DL	Statistical Analysis
MSHA 410-DL	Regression and Multivariate Analysis
MSHA 411-DL	Advanced Data Modeling for Health Analytics
MSHA 412-DL	Feature Engineering and Text Mining
MSHA 422-DL	Artificial Intelligence and Practical Machine Learning
MSHA 455-DL	Data Visualization and Storytelling
MSHA 480-DL	Health Analytics Leadership
MSHA 498-DL	Capstone

- <sup>1</sup> Which entry course should I take?
- Students without an analytics background (e.g., nursing, respiratory therapy, physical therapy, physicians) should take MSHA 401-DL Programming for Health Analytics.
  - Students without a clinical background (e.g., engineering, economics, statistics) should take MHI 402-DL Introduction to Clinical Thinking.

Note: Students with neither an analytics or clinical background should take MSHA 401-DL Programming for Health Analytics.

## About the Final Project

As their final course in the program, the Capstone is intended to be the culmination of coursework towards the MSHA degree. In the Capstone, students will

- Apply tools learned during MSHA coursework to define a problem in health care
- Define the data needed to resolve the problem
- Perform the analysis, and
- Communicate the results and conclusion of the analysis in written form.