

HEALTHCARE DATA SCIENCE AND AI, ADVANCED GRADUATE CERTIFICATE

Curriculum

To earn a certificate, students must complete four of the following courses:

Course	Title
MHDS 401-DL	Foundation of Healthcare Programming with Python and R
MHDS 403-DL	Introduction to U.S. Healthcare, Digital Health & Analytics
MHDS 405-DL	Data Literacy and Analytics in Healthcare
MHDS 407-DL	Data Governance, AI Ethics & Cybersecurity
MHDS 409-DL	Foundations of Health Statistics and Data Exploration
MHDS 410-DL	Predictive Modeling and Statistical Inference in Healthcare
MHDS 412-DL	Feature Engineering and Unstructured Data
MHDS 422-DL	Practical Machine Learning and AI in Healthcare
MHDS 426-DL	Applications of AI in Healthcare
MHDS 427-DL	Enabling AI: Cloud Platforms, Data Architecture, and Scalable Systems
MHDS 428-DL	Digital Twin Intelligence in Healthcare: Foundations, Agents, and Strategy
MHDS 455-DL	Data Visualization and Storytelling
MHDS 480-DL	Healthcare Strategy, Operations, and AI Leadership

Any course that has a prerequisite may be taken provided the student has met prerequisites through course completion or course waiver.

Please note that courses completed in the certificate program cannot be transferred to the corresponding graduate degree.