2024-2025 Core & Concentrations

Analytics Concentration Requirements:
1 x Big Data
1 x Machine Learning
1 x Analytics Systems

Human-Centered Data Science Concentration Requirements:
1 x Research Methods
2 x HCI

Systems Concentration Requirements:
3 x Systems Project

MCDS CORE
10-601 Machine Learning
15-619 Cloud Computing
11-637 Foundations of Computational Data Science
05-839 Interactive Data Science

Analytics Systems
10-605 Machine Learning with Large Datasets
10-708 Probabilistic Graphical Models
10-714 Deep Learning Systems: Algorithms and Implementation
11-642 Search Engines
11-689 Machine Learning in Production
11-711 Advanced Natural Language Processing
11-737 Multilingual Natural Language Processing
11-751 Speech Recognition and Understanding
11-755 Machine Learning for Signal Processing
11-775 Large Scale Multimedia Analysis
11-777 Multimodal Machine Learning
11-788 Computational Forensics & AI
11-877 Advanced Topics in Multimodal Machine Learning
11-891 Neural Code Generation

Capstone Requirements:
Capstone Planning Seminar
Internship
2 x Capstone Courses

MCDs Graduation Requirements:
MCDS Core Courses
One Set of Concentration Courses
One Elective (any 600+ level SCS course)

Schedule of Classes