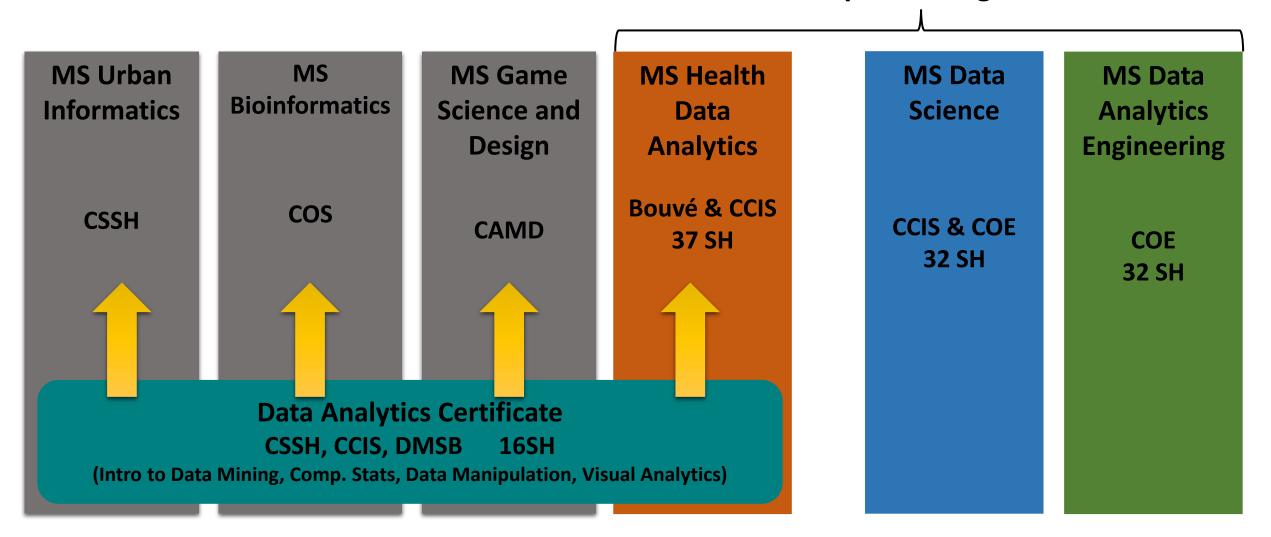
The Data Landscape

Proposed Programs



The Common Foci

Data Mining

- MSDS: In-depth, two course sequence
- MSHDA: Intro and fundamental techniques
- **MSDAE**: Focus on engineering applications

Data Processing

- MSDS: Emphasizes parallel data processing
- MSDHA: Introductory, focus on health data
- **MSDAE**: Emphasis on enterprise databases

Statistics

- MSDS: Placement; Integrated into ML courses
- MSHDA: Application of comp. statistics
- **MSDAE**: In-depth, two course sequence

Data Presentation & Visualization

- Covered in the three programs
- Differing emphasis on technical elements

Distinctive Features of the MS programs

	Data Science	Health Data Analytics	Data Analytics Engineering
Background of Most Incoming Students	STEM	Health Sciences	Engineering
Program Strengths	Programming Machine Learning, Algorithms High-Performance Computing	Modeling Predictive Analytics of Health Data	Operations Research Stat. & System Modeling Engineering Applications
Representati	Software industry	Healthcare Systems	Smart Manufacturing