



Masters in Data Science is a 36-credit hour program that provides students technical and analytical skills required for successful careers in the growing field of data science. Data science draws on theory from statistics and computer science to make sense of data. These include social media trend analysis, data mining, and machine learning. The data science program at Mercyhurst is not just for those with previous training in computer programming and statistics. Instead, our program has been designed to allow students to acquire these fundamental skills as part of the program.

PROGRAM ENTRANCE REQUIREMENTS

- 3.0 Undergraduate GPA
- GRE score of 150 in verbal and quantitative and 3.5 in writing

CLASSES in the GRADUATE PROGRAM

Computing & Information Science (3 courses; 9 credits)

- CIS 500: Computing & Information Science Concepts (3)
- CIS 501: Probability and Statistics (3)
- CIS 510: Algorithm Development (3)

Data Science (6 courses; 21 credits)

- CIS 550: Relational & Non-relational Databases (3)
- CIS 551: Big Data Analytics (3)
- CIS 552: Database Security (3)

- CIS 570: Artificial Intelligence (3)
- CIS 571: Machine Learning (3)
- CIS 572: Social Media Mining (3)
- CIS 580: Data Visualization (3)

Culminating Experience (2 course; 6 credits)

- CIS 598: Research Methods (3)
- CIS 599: Research Projects (3)

Degree Completion Plan			
Year 1	Fall Semester (9 credits)	Spring Semester (9 credits)	Summer Semester (0 credits)
	CIS 500 CIS 501 CIS 510	CIS 550 CIS 570 CIS 580	
Year 2	Fall Semester (6 credits)	Spring Semester (6 credits)	Summer Semester (0 credits)
	CIS 551 CIS 571 CIS 598	CIS 552 CIS 572 CIS 599	