Information Sciences

Gulhan Bizel, Ph.D., Interim Director, Master of Science in Information Sciences

A Masters Degree in Information Sciences, 30-credit STEM degree program will serve to prepare diverse leaders in addressing complex issues and will follow a “learn-by-doing” pedagogy. In addition, the program will offer students the opportunity to apply skills and knowledge in real time every week through interactive, mentor-led practice sessions, as well as quizzes, assignments, and hands-on projects. As students’ progress through the program, they will come to deeply appreciate the nuances of data as well as build a professional portfolio.

The program will be providing concentrations according to the selected electives:

- Master of Science in Information Sciences, Concentration: Data Science.
- Master of Science in Information Sciences, Concentration: Cyber Security.
- Master of Science in Information Sciences, Concentration: Artificial Intelligence (AI).

Program Availability

The courses are offered on a trimester calendar (Fall/Winter/Spring/Summer terms) at the Jersey City Campus. Both online and hybrid delivery methods available.

Degree Requirements
The degree requires 30 semester hours.

Advisement
The Program Director will advise students by using the Student Planning tool.

Time Limitation
Students are expected to enroll continuously until their programs are completed. Students are required to maintain satisfactory academic progress by maintaining the required grade point average and accumulating sufficient credits within the stipulated time frame of five years.

Curriculum - Master of Science in Information Sciences

Technology Courses		**24**
DS-530	Data Management Systems	
DS-600	Data Mining	
DS-660	Business Analytics	
IS-601	Process Management & Integration	
IS-602	Integrating IS Technologies	
IS-603	I.T Strategy	
IS-604	Data Integration- BI & Analytics	
DS-670	Capstone: Big Data & Data Science	
Select 2 Elective Courses for Conentration		**6**
DS-630	Machine Learning	
DS-684	Data Engineering Using Cloud Computing	
CY-510	Cyber Security Planning & Risk Analysis	
CY-540	International Communication & Networking	
CY-640	Cybercrime and Digital Forensics	
DS-687	Artificial Intelligence Fundamentals	
DS-688	Natural Language Processing With Ai	
Industry Experience		**0**
(Requirement to complete the program)		
DS-598	Applied Industry Experience (For CPT)	

DS-597	Applied Research Experience	
Total Credits		**30**