MASTER OF SCIENCE: DATA SCIENCE ANALYTICS

Student Learning Outcomes

Students graduating from this program will:

- develop solutions for advanced problems using appropriate skills and knowledge in data science;
- recognize and apply state of the art techniques and tools in the data science field;
- work effectively in teams.
- demonstrate advanced knowledge in data science

The following coursework is applicable to students that have completed a Bachelor's degree in Computer Science or Information Technology. All other students may be subjected to additional prerequisite coursework prior to beginning the plan of study detailed below.

Code	Title	Credits
Required Coursework		**15**
COMP-SCI 5530	Principles of Data Science	
COMP-SCI 5540	Principles of Big Data Management	
COMP-SCI 5565	Introduction to Machine Learning	
COMP-SCI 5567	Deep Learning	
COMP-SCI 5588	Data Science Capstone	
Program Electives		**15**
COMP-SCI 5525	Cloud Computing	
COMP-SCI 5542	Big Data Analytics and Applications	
COMP-SCI 5551	Advanced Software Engineering	
COMP-SCI 5560	Knowledge Discovery and Management	
COMP-SCI 5573	Information Security and Assurance	
COMP-SCI 5582	Computer Vision	
COMP-SCI 5590	Special Topics	
COMP-SCI 5597	Directed Readings	
MATH 5545	Mathematical Methods in Data Science	
MIS 5507	Business Analytics and Statistics	
MIS 5557	Intermediate Business Analytics	
MKT 5566	Predictive Analytics Using R	
STAT 5501	Statistical Design Of Experiments	
STAT 5561	Time Series Analysis	
Total Credits		**30**