

Master of Science in Data Analytics

Course	Course Title	DATAM1	DATAM2	DATAM3	DATAM4	DATAM5	ILO1	ILO2	ILO3	ILO4	ILO5
COMP 630	Issues in Database Management	X		X		X	X	X	X	X	X
MATH 601	Introduction to Analytics	X	X	X	X		X	X	X	X	X
DATA 605	Data Visualization & Reporting	X		X	X		X	X		X	X
DATA 610	Big Data Analytics and Data Mining	X		X	X	X	X	X	X	X	X
DATA 611	Applied Machine Learning	X	X				X		X		X
DATA 612	Data Mining		X			X			X	X	X
DATA 621	Advanced Analytics		X	X			X	X	X		X

Institution Learning Outcomes

- ILO1 Communication: Communicate professionally using a variety of modalities (written, spoken, and technological).
- ILO2 Critical Thinking: Analyze and evaluate information to make reasoned arguments and solve problems.
- ILO3 Civic & Global Engagement: Integrate knowledge and skills to engage with and respond to social, environmental, and economic challenges at local, national, and global levels.
- ILO4 Ethics: Analyze and evaluate complex issues and situations to make informed ethical decisions.
- ILO5 Disciplinary Expertise

Program Learning Outcomes

- DATAM1 Create visualizations and interactive dashboards from multiple data sets
- DATAM2 Apply appropriate data analytics methods to solve real-world business challenges
- DATAM3 Articulate assumptions, analyses and interpretations of data in a variety of modes
- DATAM4 Evaluate appropriate ethical use of data
- DATAM5 Apply best practices in management of security of data