COURSE DESCRIPTIONS

Data Analytics Graduate Certificate

MGSC 624 STATISTICAL ANALYSIS (3)
Use of statistical techniques for business research, analysis, and forecasting. It includes regression analysis and other econometric tools and the use of computer software. (Prerequisites: MGSC 239; MGSC 302.)

MIS 672 APPLICATION PROGRAMMING (3)
A review of programming features and their application to business application development and functionality. (Prerequisite: MIS 304)

MIS 675 DATABASE MANAGEMENT SYSTEMS (3)
Database concepts and principles in database design with exposure to a popular relational database like "Oracle." (Prerequisite: MIS 304.)

MIS 686 DATA ANALYTICS AND VISUALIZATION (3)
This course provides an overview of gathering, cleaning, describing, integrating data, and, developing data models. Students will apply descriptive statistical tools to get a comprehensive understanding of the datasets and visualize those using data visualization tools. Students will be introduced to real-world datasets and will have hands-on experience in using them in building preliminary decision models. (Prerequisite: MGSC 624)

MIS 688 APPLIED PREDICTIVE ANALYTICS (3)
In this course students will be introduced to popular data mining methods such as classification, association, and clustering techniques. Students will use relevant software for data mining exercises. Students will develop and apply trend and regression analysis, and, forecasting techniques in business problem solving. (Prerequisite: MGSC 624)