

**Department: College of Business Administration**  
**Program: Graduate Business Analytics Certificate**

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
<b>Develop understanding of the key technologies in Business Analytics.</b>	Apply quantitative modeling and data analysis techniques to the solution of real world business problems. Communicate findings, and effectively present results using data visualization techniques.	ISYS 5347 “Information Systems & Business Analytics” (I) ISYS 5351 “ Databases & Data Warehouses” (I,R) ISYS 5352 “Exploratory Data Analysis & Visualization” (I,R) ISYS 5353 “Predictive Analytics” (M)
<b>Gain practical experience with analytics programming languages and big data tools</b>	Demonstrate knowledge of statistical data analysis techniques and software packages utilized in business decision making. Apply principles of Data Analytics to the analysis of business problems.	ISYS 5347 – “Information Systems & Business Analytics” (I) ISYS 5351 “ Databases & Data Warehouses” (M) ISYS 5352 “Exploratory Data Analysis & Visualization” (I,R) ISYS 5353 “Predictive Analytics” (M)
<b>Demonstrate ethical principles and practices on data analytic problems.</b>	Recognize and analyze ethical issues in business related to data security, integrity, and privacy. Apply ethical practices in everyday business activities and make well-reasoned ethical business and data management decisions.	ISYS 5347 – “Information Systems & Business Analytics” (I) ISYS 5352 “Exploratory Data Analysis & Visualization” (M) ISYS 5353 “Predictive Analytics” (R)