

## Fall 2018 Special Topics Courses

### **Special Topics Courses Made Permanent:**

#### **MA706: Design of Experiments for Business (Formerly MA799B: Design of Experiments)**

*Prerequisite(s): ST 625*

*Notes: This course may be used as an elective in the MSBA or an application elective in the Graduate Certificate in Business Analytics or Business Analytics Concentration in the MBA. It may also be used as an MBA unrestricted elective or an outside elective for certain MS degree programs.*

#### **Course Description**

This class will introduce the design, conduct and analysis of experiments, and interpretations, with an emphasis on business applications. Various designs and analyses will be discussed and their respective differences, advantages, and disadvantages will be noted. Examples and interpretations in business will be demonstrated.

### **Experimental Courses:**

#### **CS 799: Data-Driven Development with Python**

*Prerequisite(s): None*

*Notes: This course may be used as an elective in the MSIT, MSBA, MSAA, and MSHFID or an application elective in the Graduate Certificate in Business Analytics. It may be used in the Information Systems and Technology Concentration or Business Analytics Concentration in the MBA. It may also be used as an MBA unrestricted elective or an outside elective for certain MS degree programs.*

#### **Course Description**

Python is an easy-to-learn, widely versatile programming language whose extensive collection of external libraries makes it a popular choice for business analytics and visualization, data science, artificial intelligence, scientific and numeric computing, and many other applications. Its compatibility with leading analytics tools (e.g., SAS) that are widely used in enterprises also places it in high demand. Students in this course will first learn the fundamentals of programming that are common to all programming language. They will then work with libraries such as Python Data Analysis Library (pandas), NumPy, Matplotlib, and the Natural Language Toolkit (NLTK) to create a variety of programs in a diverse range of application domains. No prior programming experience is required.

<http://cis.bentley.edu/tbabaian/cs799/>