Fall 2016 Special Topics and Experimental Courses to Consider

FI799 Financial Statements and Modeling
Pre-requisite(s): FI 623
Notes: This course may be used as an elective in the MSF or as a substitute for the required course FI 730. It will also satisfy a concentration elective in the Finance concentration. It may also be used as an MBA unrestricted elective or an outside elective for certain MS degree programs.

Course Description
Financial Statements and Modeling is focused on applying sophisticated Excel techniques to the most common modeling problems in finance, with an emphasis on financial statement analysis. Some additional specific topics include basic finance calculations, pro forma financial statement modeling, the cost of capital, and corporate valuation. The course will cover advanced features of Excel including TVM and statistical functions, array manipulation, text and date usage, regression, conditionals, Boolean operators, data tables and random number generation. Subsequently the course will cover macro recording as well as custom subroutine and function construction in the Visual Basic for Applications (VBA) development environment.

MA799A: Data Science
Pre-requisite(s): GR521 (or PPF501)
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
Working with and finding value in data has become essential to many enterprises, and individuals with the skills to do so are in great demand in industry. The required skillset includes the technical programming skills to access, process and analyze a large variety of datasets, including very large (big data) datasets, and the ability to interpret and communicate these results to others. Anyone with these abilities will provide benefit to their organization regardless of their position. This course presents the foundations of this skillset. Specifically, students will learn to program in the R language, will learn data visualization methods, will learn to clean and manipulate data and will learn to produce reports that effectively communicate their results to non-experts.

MA799B: Design of Experiments
Pre-requisite(s): GR521 (or PPF501)
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.