



### **Data Analytics Certificate Program Prerequisite Requirement**

A college-level statistics course is a prerequisite for the Data Analytics Certificate program. Specifically, students cannot enroll in either the Introduction to Analytics or Computational Statistics with R courses without fulfilling this prerequisite. Students who have not completed a college-level statistics course are encouraged to enroll in a course at an accredited college or university.

Alternatively, students who have not completed the prerequisite course may demonstrate sufficient knowledge by earning a score of 80 or better on the final exam within the Ivy course in Business Math and Statistics - Graduate. Students who enroll in the Ivy course to meet the prerequisite can also prepare for the exam using the following resources from Kahn Academy.

- Ivy course in Business Math and Statistics – this is a self-study course offered by the Else School of Management. The cost of the course and examination is \$250\*.
- The Kahn Academy sequence in statistics – these are self-study videos and quizzes available for free at <https://www.khanacademy.org/math/statistics-probability>. Each course consists of several short videos ranging from one to eight minutes long, plus examples and exercises. Students should study the following curricula:
  - Analyzing categorical data
  - Displaying and comparing quantitative data -
  - Summarizing quantitative data
  - Modeling data distributions
  - Exploring bivariate numerical data
  - Probability
  - Random variables
  - Sampling distributions
  - Confidence intervals
  - Significance tests (hypothesis testing)
  - Two-sample inference for the difference between groups
  - Analysis of Variance (ANOVA)

\*To get access to Ivy, please email [mbamacc@millsaps.edu](mailto:mbamacc@millsaps.edu).