High Level Concepts for ALY

At the conclusion of the course students will be able to:

ALY 6000

Identify basic probability concepts

Identify basic statistics including normal distribution and significance

Distinguish between a statistic and a parameter

Investigate the role of analytics in industry and how it is being used (students will do reports)

Differentiate between the world of data currently and that of 2010

Introduce “R” as a tool set for processing and analyzing data

ALY 6010

Use hypotheses testing, correlation, t-testing, variance, regression and chi square to analyze data sets

Use “R” to perform computations in basic statistics (standard deviation, scatter plot etc.)

Explore, interpret and explain the significance of results

ALY 6015

Use “R” effectively to process, analyze and depict data

Develop models to interpret data

Distinguish between different types of regression

Use diagnostics to analyze data

Explain the significance of outliers in a data set

Analyze variance in data sets

Estimate the size of a sample necessary to draw conclusions

ALY 6050

ALY 6070

ITC 6000