AP STATISTICS

CREDIT HOURS: 1.0   COURSE LENGTH: 2 Semesters

COURSE DESCRIPTION
AP Statistics data analysis is dependent on the use of technology. Students should have access to computers that include software capable of doing data analysis. Students will be required to interpret output generated by statistical software programs. Students are not expected to learn how to use various statistical programs. In addition one of the following Texas Instruments calculators is required, TI-83, TI-83+, TI-84, TI-84+, or a TI 89. The TI-83+ is the most popular calculator for AP Statistics. In most cases the calculator is sufficient but the fundamental tool of data analysis is the computer.

COURSE PREREQUISITES
Pre-Calculus Honors

REQUIRED TEXTBOOK (S) and/or MATERIALS
Graphic Calculator

   Title: The Practice of Statistic: T1-83/89 Graphic Calculator Enhanced
   Edition: 2nd
   Author: Dan Yates, David Moore, Daren S. Starnes
   Publisher: W. H. Freeman

TOPIC OUTLINE
Semester I:
1. Organizing Data: Looking for Patterns and Departures from Patterns
2. Exploring Data
3. The Normal Distributions
4. Examining Relationships
5. More on Two-Variable Data
6. Producing Data: Samples, Experiments, and Simulations
7. Producing Data
8. Probability: Foundations of Inference
9. Probability: The Study of Randomness
10. Random Variables

Semester II:

1. The Binomial and Geometric Distributions
2. Sampling Distributions
3. Inference: Conclusions with Confidence
1. Introduction to Inference
2. Inference for Distributions
3. Inference for Proportion
4. Inference for Tables: Chi-Square Procedure
5. Inference for Regression

University of Miami Global Academy reserves the right to revise the course outline as needed throughout the duration of the course