BOSTON LATIN SCHOOL

Department of Mathematics
2010-2011

COURSE Statistics

TEACHER Mr. Simoneau
School phone: 617-635-8895 214
E-mail: mrsimoneau@gmail.com
Website: www.bls-stats.org
Online Gradebook: www.jupitergrades.com

CLASSROOM 206

DESCRIPTION
The purpose of the Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. At the conclusion of this course, students will be able to: Construct and interpret graphical displays of distributions of univariate data (dotplot, stemplot, histogram, cumulative frequency plot); summarize and compare distributions of univariate data; explore bivariate and categorical data; review methods of data collection; plan and conduct surveys with sampling methods; plan and conduct experiments; generalize conclusions drawn from observational studies; experiments and surveys; interpret probability; apply the addition rule, multiplication rule, conditional probability, and independence; compute and interpret the mean and standard deviation of a random variable, and linear transformation of a random variable; combine independent random variables; study properties of the normal distribution; use the normal distribution as a model for measurements; review sampling distributions; estimating population parameters and margins of error; understand the meaning of confidence levels and intervals, and apply properties of confidence intervals; understand the logic of significance testing, null and alternative hypotheses, p-values, one- and two-sided tests for a mean and a difference between 2 means; Chi-Square test for goodness of fit; and test for the slope of a least-squares regression line

READING SYLLABUS
(Homework/Studying) The Practice of Statistics (2nd Edition) – Yates, Moore, Starnes
(In-Class) Workshop Statistics – Discovery With Data – Rossman
(In-Class) Activities and Projects for Introductory Statistics – Millard & Turner

GRADING
This class will be graded on a point scale system. Each graded assessment will have an assigned point value. Typical assignments for each term will include tests, quizzes, projects, and homework. To determine your grade for the term, all points earned are totaled and divided by the total number of possible points.

Final Grade: 1st term 25 %, 2nd term 25 %, 3rd term 25 %, 4th term 25 %

HOMEWORK
Homework assignments are given to help students learn the material in the class and to develop good reasoning and problems solving skills. The expectation is that students will do each night's assigned homework.

If a student completes all homework assignments then 2 percentage points will be added to his or her term average.
If a student completes all but two or fewer homework assignments then the term average is unaffected.
If a student misses more than two homework assignments in a term then he or she will lose 1 percentage point from the term average for each assignment missed.

CONDUCT
Students will be expected to follow the following class rules:

1. Respect for all
2. Come to class on time
3. Come to class prepared with notebook, handouts, calculator, and pen/pencil.
4. Be attentive at all times (no putting your head down)
5. No talking while the teacher is talking
6. No electronic devices – such devices will be confiscated and turned into the office.
7. Work hard – stay on task

CLASS WEBSITE & ONLINE GRADEBOOK

I encourage all students to visit my class website at www.bls-stats.org for up-to-date class information and the online gradebook at www.jupitergrades.com for student grades.

OFFICE HOURS

It is my expectation that all students will excel in my class. With that said, I will do everything possible to help my students. If a student needs help, they are encouraged to speak to me. Upon request, I am available before school, during R5, or after school from 2:15 to 2:45 (Mon – Thurs).

Students and Parents:
Please read the above information together, and indicate by your signatures on the reverse of the color copy of this syllabus that you understand the purpose, format, and expectations of this course. Please return the color copy to me and keep the white copy for your own reference. Please feel free to see, call, or e-mail me with any questions or problems you might have.

Student:

I have read and I understand the course description and classroom expectations for Statistics.

Student signature _____Date_____

Student e-mail _____

Parent:

I have reviewed the course description and classroom expectations for Statistics with my son or daughter.

Parent signature _____Date_____

Parent e-mail _____

Parent phone/s _____