

Lincoln High School-Math Department
AP STATISTICS
Course Syllabus – Student/Parent Agreement
2014-2015

Instructor: Edgar Villarreal
(Science for Global Solutions SLC)

Room: 170

Email: evill3@lausd.net

Textbook: Introduction to Statistics and Data Analysis (3d Ed); Roxy Peck, Chris Olsen and Jay Devore; Thomson/Brooks-Cole.

Course Description:

This course is a technical and in-depth extension of probability and statistics, which is the science of collecting, analyzing and drawing conclusions from data. The course also exposes students to sampling distributions and inferential statistics. Mastery of academic content for advanced placement gives students the background to succeed in the Advanced Placement examination.

Required Course Resources

- Textbook
- 3-ring binder(s) (for multiple handouts and study guides)
- Loose graph paper (3-hole)
- TI-83+ Graphing Calculator
- LAUSD Student email account

Grade Distribution:

- ***Classroom habits (15%)*** – Success in a mathematics class begins in the classroom. Each week you will be evaluated on your effort during class activities, such as warm up activities; guided practice problem sets, computer lab activities, class or group discussions, etc. Attendance and punctuality, as well as your adherence to our school's electronic device policies are also a part of your weekly evaluation.
- ***Practice (HW) Assignments (10%)*** – Success in mathematics requires practice. Practice assignments are intended to be completed out of class and turned in to the teacher. These are not graded for correctness, but are graded on completeness and effort shown. A responsible learner uses their textbooks and other methods to check their work and asks questions when they do not understand or are not certain.
- ***Assessment (75%)*** – The most important factor in the determination of your grade is your demonstration of mastery of the subject matter. Mastery is shown through unit tests and performance-based tasks and assignments.

Uniform Grading Scale:

90 – 100% = A

80 – <90% = B

70 – <80% = C

60 – <70% = D

0 – <60% = Fail

Anticipated Course Outline:

Fall Semester (August 12, 2014 to December 19, 2014)

Unit 1: Exploring Data: Describing patterns and departures from patterns

- Weeks 1-4 Part A: Summarizing and comparing distributions of univariate data

Unit 2: Sampling and Experimentation: Planning and conducting a study

- Weeks 5-8

Unit 3: Anticipating Patterns: Exploring random phenomena using probability and simulation

- Weeks 9-13 Part A: Probability rules and random variables
- Weeks 14-16 Part B: The normal distribution and combining random variables
- Week 17-**** Part C: Sampling Distributions
- Week 18 Final (on Unit 1A, 2, 3A and 3B)

Spring Semester (January 12, 2015 to June 5, 2015)

- Weeks 1-3 Finish Unit 3C

Unit 4: Statistical Inference: Estimating population parameters and testing hypotheses

- Weeks 4-7 Part A: Inference on one population parameter through confidence intervals and tests of significance
- Weeks 8-12 Part B: Inference on two population parameters; Chi-Square testing

Unit 1: Exploring Data: Describing patterns and departures from patterns

- Weeks 13-15 Part B: Exploring bivariate data (+ inference on slope)
- Week 16-17 AP Exam Review (**AP Exam: Wed, May 13, 2015**)
- Week 18 Final (on Unit 3C, 4A, 4B and 1B)
- Week 19-20 Post AP – To be determined

Rules and Expected Classroom Behaviors:

1. Be on time every day and have good attendance.
2. Use of electronic devices is highly discouraged. Keep smart phones and earphones out of sight during instructional time. Cell phone use allowed for emergencies only. Also, no charging of electronic devices will be permitted during class.
3. Be cleanly and pick up after yourselves. You share this room with about 200 students.
4. Be responsible. Complete all classwork assignments in class, and turn in all homework assignments on time. Late submissions will not receive full credit.

Non-discrimination notice: "Lincoln High School does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access for all of our services. Ms. Joni Boykins, Assistant Principal, is the person designated to handle inquiries regarding the non-discrimination policies."

We have read and understand the course syllabus, and agree to follow and support all the stated rules and expected classroom behaviors.

Student Name

Parent/Guardian Name

Student Signature

Parent/Guardian Signature

Parent Email/Phone Number