MVLA
2025-2026
COURSE INFORMATION SHEET

Course Title: AP Statistics

School: LAHS

UC/CSU Requirement: Yes

Textbook and/or other learning resources: Advanced High School Statistics 3e 2022, Diez, Barr, Cetinkaya-Rundel, & Dorazio.

Course Description/Student Learning Outcomes:

This course covers a basic introduction to probability and statistics including, descriptive statistics and graphical presentation of data, confidence intervals in parameter estimation, hypothesis testing, correlation and regression, and inference tests. The course prepares a student to succeed on the AP Statistics exam.

Whole class instruction and discussion, small group problem solving, discussion and presentation, and student's individual written work during synchronous class time will be the main modes of instruction. By the end of the year, students will be able to:

1) Exploring Data: Describing patterns and departures from patterns (20%–30% of the exam). Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns. Emphasis should be placed on interpreting information from graphical and numerical displays and summaries.
2) Sampling and Experimentation: Planning and conducting a study (10%–15%of the exam). Data must be collected according to a well-developed plan if valid information on a conjecture is to be obtained. This plan includes clarifying the question and deciding upon a method of data collection and analysis.
3) Anticipating Patterns: Exploring random phenomena using probability and simulation (20%–30% of the exam). Probability is the tool used for anticipating what the distribution of data should look like under a given model.
4) Statistical Inference: Estimating population parameters and testing hypotheses (30%–40% of the exam). Statistical inference guides the selection of appropriate models.

Course Outline/Units of Study/CTE Industry Standards (If applicable to your course):

AP Statistics is the high school equivalent of a one semester, introductory college statistics course. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data
2. Sampling and Experimentation
3. Anticipating Patterns
4. Statistical Inference.

The study of statistics blends the rigor, calculations, and deductive thinking of mathematics; the real-world examples and problems of the social sciences; the decision-making needs of business and medicine; and the laboratory method and experimental procedures of the natural sciences.

Required Materials

Binder (2") w/ tabs labeled: Class Activities, Note Packets, Formulas, Other
Calculator
Pencils & Erasers
Color pens (in additional to black)

Assessment and Grading (BP 5121 / AR 5121): To ensure that every student has an equal opportunity to demonstrate their learning, the course instructors implement aligned grading practices and common assessments with the same frequency.

1. **Grading categories and their percentage weights:**
   Semester
   - Unit Tests 50%
   - Unit Quizzes 25%
   - Assignments 5%
   - Projects 20%

2. **Achievement evidence collected within each grading category:**
   Assessments: There will be multiple summative assessments each semester. Each summative assessment will build on the concepts students have mastered to date and be objectively graded looking for correctness and complete answers.
   Assignments: Daily assignments will be assigned and will be periodically checked and graded upon completion and effort.
   Projects: At least one project per semester will be assigned and graded based on collaboration, effort, correct procedure, poster quality, and presentation.

3. **Grading scales:**

A+ 98.00 to 100%	A 94.00 to 97.99%	A- 90.00 to 93.99%
B+ 87.00 to 89.99%	B 84.00 to 86.99%	B- 80.00 to 83.99%
C+ 77.00 to 79.99%	C 74.00 to 76.99%	C- 70.00 to 73.99%
D+ 67.00 to 69.99%	D 64.00 to 66.99%	D- 60.00 to 63.99%
F 59.99 to 0%		

4. **Calculators:**
   TI 84 or TI Nspired are recommended for this class.
   Only class set calculators (TI 84) can be used during assessments. Otherwise, all other calculators are prohibited.

5. **Homework/outside of class practices (AR 6154):**
   Daily assignments will be assigned and will be periodically checked/graded upon completion.

6. **Excused absence make up practices (Education Code 48205(b)):**
   If a student has an excused absence, daily homework or missed summative assessments will be accepted upon student's return for full credits.

7. **Academic integrity violation practices (LAHS Academic Integrity Policy / MVHS Academic Integrity Policy):**

   Honesty, trust and integrity are vital components of the education process. The Governing Board believes that academic honesty and personal integrity are fundamental components of a student's education and character development. The Board expects that students will not cheat, lie, plagiarize or commit other acts of academic dishonesty. Students and families should understand and act upon the values of academic integrity and should encourage the highest standards of academic behavior from themselves and their peers.

It is assumed that all work completed for a class is original work created for that class, for a specific assignment. Please refer to the Academic Integrity policy in the student handbook. For categories A and B, the “V” will be worth zero with no opportunity of point recovery. For violations in category C students will receive a failing grade in the course.

Below are examples of each category:

Category A: Minor Violations
This category involves violations related to smaller assignments such as classwork and homework.
Examples:
- Using an online answer key (either teacher-made or from a third party) and claiming the work as one's own.
- Using technology in an unethical manner to complete assignments, including but not limited to cell phone applications (such as PhotoMath, Mathway, Symbolab, etc.), use of Ai technology, and sharing pictures via social media websites.

Category B: Major Violations
This category involves violations related to major grade book entries such as quizzes, tests, projects, and final exams.
Examples:
- Sharing or requesting any information from a test with another student who has or has not taken the test.
- Unauthorized use of technology during an exam (e.g., cell phone, smart watch, etc.).
- Violating any assessment rule provided by the teacher within the parameters of the assessment.

Category C: Severe Violations
This category involves severe violations that compromise the integrity of the educational process.
Examples:
- Accessing a teacher's gradebook to alter grades.
- Stealing any assessment from the class that is not authorized by the teacher to leave the classroom.

8. **Late work practices:**
   No late assignments are accepted, except for excused absences.

9. **Revision practices:**
   Students are offered retakes (ONLY if students have no missing assignments on the current unit) on unit quizzes and tests. Final scores will be the average of the original score and the retake score. Final scores are capped at 75%.
   Retake deadlines are provided by the teacher and must be completed during ACT or a time/date agreed upon by the teacher and student. It is the students’ responsibility to schedule this ACT session (appointment only) with the teacher.

10. **Extra credit practices:**
    No extra credit will be assigned or given in this course.

11. **All work must be completed in pencil.**
    Colored pens are to be used exclusively for corrections.
    Please be advised: if your work is not legible, it will not be graded and a score of 0 will be given.

12. **Additional grading practices:**
    Any grade earned through group collaboration will be based on a measure of each individual’s achievement of the course learning outcome so each member of a group will earn their own unique grade on the group's project(s).

13. LMS Used:

a. Aeries
b. Student's Calendar (Shared by the teacher)*
c. Canvas

*The student calendar is essential in this class. Please make sure to review it daily to understand what was done in class and what was assigned outside of class. This is especially important if you were absent.

Instructors' email addresses:

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Additional Information:

Student & Parent Handbook