AP Statistics Syllabus Outline

Ms. Jauregui – Lake Dallas High School

Fall 2025

Dear Parents and Guardians,

Welcome to AP Statistics at Lake Dallas High School! This syllabus outlines the course plan for your child's class this semester, including key topics, expectations, and how you can support their success. As required by Texas law (Senate Bill 12), this document serves as the instructional plan and is available for your review. I look forward to working with you and your child!

Contact Information

- **Teacher**: Ms. Jauregui
- **Email**: cjauregui@ldisd.net
- **Phone**: 940-497-4031
- **Conference Time**: 7th Period (1:25-2:10 PM) Monday - Friday
- **Best Way to Reach Me**: Email is always the best way to reach me on a consistent basis. I will respond by the end of the following school day.

Course Overview (Instructional Plan)

This course is intended to prepare students for the Advanced Placement (AP) Statistics test administered by College Board. As such, this semester your child will study the following topics in Statistics, based on the standards set by College Board in the Course and Exam Description (CED).:

1. **Unit 1: Exploring Data**
    - Learning objectives: Introducing Statistics (CED 1.1), Analyzing Categorical Data (CED 1.2-1.4, 2.2-2.3), Representing Categorical Data (CED 2.1-2.2), Describing Quantitative Data (CED 1.5-1.7), Measuring Variability (CED 1.7), Comparing Quantitative Data (CED 1.7-1.9)
    - Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test
2. **Unit 2: Modeling Distributions of Data**
    - Learning objectives: Percentile (CED 1.7), Location in a Distribution (CED 1.10), Linear Transformations of Quantitative Data (CED 4.9), Normal Distributions and the Empirical Rule (CED 1.8, 1.10), Normal Distribution Calculations (CED 1.10)
    - Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test
3. **Unit 3: Exploring Two-Variable Data**
    - Learning objectives: Scatterplots (CED 2.4), Correlation (CED 2.5, 2.8), Making Predictions (CED 2.6-2.8), Residual Plots (2.7), Outliers, High-Leverage, and Influential Points (CED 2.9), Transforming Non-Linear Data (CED 2.9), Choosing the Best Model (CED 2.9)
    - Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test
4. **Unit 4: Collecting Data**
    - Learning objectives: Simple Random Sample (CED 3.1-3.4), Stratified Random Samples (CED 3.3), Cluster and Systematics Samples (CED 3.3), Potential Problems with Sampling (CED 3.4), Observational Studies and Experiments (CED 3.2, 3.5), Designing Experiments (CED 3.5), Selecting an Experimental Design (CED 3.5-3.6), Inference and Experiments (CED 3.2, 3.7)

- Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test

5. **Unit 5: Probability**

    - Learning objectives: Introducing Probability (CED 4.1-4.3), Simulation (CED 4.2), Rules for Probability (CED 4.3), The Addition Rule (CED 4.4, 4.6), Conditional Probability and Independence (CED 4.5-4.6), Tree Diagrams (CED 4.6)

    - Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test

6. **Unit 6: Random Variables**

    - Learning objectives: Discrete Random Variables (CED 4.7-4.8), Continuous Random Variables (CED 5.2), Transforming Random Variables (CED 4.9), Combining Random Variables (CED 4.9), The Binomial Distribution (CED 4.10), Parameters for Binomial Distributions (CED 4.11), Conditions for Inference (CED 6.2), Geometric Distribution (CED 4.12)

    - Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test

7. **Unit 7: Sampling Distributions**

    - Learning objectives: Sampling Distributions (CED 5.1), Bias and Variability (CED 5.4), Sample Proportions (CED 5.5), Differences in Sample Proportions (CED 5.6), Sample Means (CED 5.7), Central Limit Theorem (CED 5.3), Differences in Sample Means (CED 5.8)

    - Activities: Exploratory lessons using real-world data and situations, practice questions from previous AP exams, question sets, quizzes, test

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Grading & Assignments

- **Grading**:

    - Major Grades (Quizzes and Tests): 60%
    - Minor Grades (Daily Assignments, Question Sets, Practice Questions): 40%

- **Assignments**:
    - Homework will be assigned regularly and will include assignments due the next day as well as assignments that are intended to be completed over several days.
        - It is important for students to do their assignments on time as this course builds on prior knowledge every single day!
    - All assignments are intended to help students practice their skills or highlight connections between material we have learned or will be learning soon.

Supporting Your Students

- **On a Regular Basis**:
    - Ask your student about what they learned in class
    - Check in with them to make sure they've completed all their daily assignments
    - Encourage them to try their best on all assignments and ask questions when they're stuck
- **If Their Grade is Less Than Ideal**:
    - Encourage and provide opportunities for your student to attend tutoring. This could include weekly tutorials or Falcon Library (more info about both can be found in my Canvas course).
    - Check Skyward to see what grades may be lower or missing, and encourage your child to check in to see what can be done about them
    - Make sure that any major grades (tests or quizzes) have been corrected and that corrections have been submitted on time
    - Encourage your student to work through additional problems that can be found in AP Classroom! We will discuss how to do this in class.

Thank you for supporting your child's education! Feel free to contact me with questions.

Sincerely,
Ms. Jauregui