

Math 11: Elementary Statistics (Reedley College Dual Enrollment)

Syllabus & Course Outline

“Pure mathematics is, in its way, the poetry of logical ideas.” - Albert Einstein

Instructor: Mr. Joe Schuster, Dinuba High School – Dinuba, CA

Textbook: Larson et al. Elementary Statistics, 7th ed. Houghton Mifflin: New York, 2019.

Objectives

- To master all of the Statistics standards as determined by Reedley College.
- To prepare students to conduct research projects, including in the second semester of this class.
- To increase student confidence and performance in mathematics.
- To promote critical and independent thinking.

Grading

Each student's grade will be based on their relative scores in each of the weighted categories shown below on the left. Below and on the right is the overall percentage breakdown.

Grades		Overall Grading Percentage
• Homework	20%	A = 90% +
• Quizzes	10%	B = 80% – 89%
• Exams	50%	C = 68% – 79%
• Midterm/Final	20%	D = 55% – 67%
		F = 0% – 54%

Contact

If for any reason you need to contact me, you may:

- Call me at: (559) 595 – 7220 ext. 2536
- Google Classroom add code: 7xpmj91
- E-mail me at: joseph.schuster@dinuba.k12.ca.us
- Twitter: @SchusterMath

Homework: Homework is a vital part of an education in mathematics. It allows the student to practice and achieve mastery over the skill learned in class. Homework will be assigned each day, including Fridays. To receive full credit for assignments, ALL work must be shown and assignments must be turned in on time. No credit will be issued for late work.

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Quizzes: We will have approximately one quiz for each week. Quizzes may be announced OR unannounced.

Tests: We will have one culminating test per unit. These can have multiple choice and/or free response questions. Your lowest test will be dropped from your grade after the final.

Midterm/Final: We will have a midterm exam at the end of the first four units, and a final exam at the end of the semester.

Student Responsibilities

- Students are expected to attend class regularly and arrive on time.
- Students are expected to be prepared for class each day, with materials needed to successfully participate (paper, pencil, binder, and agenda are minimum expectations).
- Students are expected to participate in class. This includes taking notes during the daily lesson and keeping those notes in the Mathematics section of their binder.
- Write the daily homework assignment in their agenda or check the Google Classroom for the assignment.
- **Make-up work:** Students have one day to make-up homework for each day absent. It is the student's responsibility to ask for missed assignments. Students with scheduled absences must get their assignments in advance and turn it in on time. Students have one week to make up quizzes and tests.
- **Academic Dishonesty:** If you are suspected of cheating on any assignment you will receive a zero on the assignment and a referral to the assistant principal. This includes copying work of others on homework, projects, or assessments.
- Finally... **YOU ARE EXPECTED TO STUDY ON YOUR OWN TIME!!!** If you expect to do well solely off of your in-class time, you are mistaken. This is a college course, and as such it requires that you spend time outside of class studying!

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Course Outline

<u>Unit</u>	<u>Approx. Time in Unit</u>	<u>Topics</u>
1	1 Week	Introduction to Statistics
2	2 Weeks	Descriptive Statistics
3	2 Weeks	Probability
4	2 Weeks	Discrete Probability Distributions
5	2 Weeks	Normal Probability Distributions
6	3 Weeks	Confidence Intervals
7	3 Weeks	Hypothesis Testing with One Sample
8	2 Weeks	Correlation and Regression

NOTICE: By signing below, you have indicated that you have read the above information and acknowledge that these expectations are to be met in order for your student to be successful in this class.

Keep the first page of the syllabus and the outline above as a reference, but please sign and return this portion by the end of the first week of school.

Print Student Name

Student Signature

Date

Print Parent/Guardian Name

Parent/Guardian Signature

Date

Quantitative Reasoning with Statistics – Syllabus & Course Outline

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Instructor: Mr. Joe Schuster, Dinuba High School – Dinuba, CA

Textbook: Larson et al. Elementary Statistics, 7th ed. Houghton Mifflin: New York, 2019.

Objectives

- To develop, conduct, and report on qualitative, quantitative, and mixed-methods research projects.
- To present findings to various audiences using different media.
- To understand community problems and develop possible solutions.
- To engage in extensive college-preparatory critical thinking and research.

Grading

Each student's grade will be based on their relative scores in each of the weighted categories shown below on the left. Below and on the right is the overall percentage breakdown.

Grades		Overall Grading Percentage
• Daily Participation	10%	A = 90% +
• Units 9 – 13 (each)	10%	B = 80% – 89%
• Report and Presentation	40%	C = 70% – 79%
		D = 50% – 69%
		F = 0% – 49%

Research Project: This semester revolves around a research project. Everything that we do will lead to a presentation of your research project. You will find a question that is important to your community (age group, the high school, the town, the nation, or the worldwide community). Once you have a question, you will find academic journal articles that relate and provide insight to your question. Then you will collect and analyze data to address your question. Finally, you will prepare your findings into a report to communicate the findings effectively to others.

Daily Participation: Your effort is required daily in this class. While the key assignments will take multiple weeks to finish, you will be required to show that you are making progress daily via a written reflection. No late reflections will be accepted.

Quantitative Reasoning with Statistics – Syllabus & Course Outline

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Units 9 – 13: Each of these units will be one necessary aspect of your research project. As they are vital, they are cumulatively worth 50% of your grade in this class. Each unit will have a key assignment, that will be due on the final day of the unit. **Any** late assignments will lose **half** of the possible points for that unit.

Student Responsibilities

- Students are expected to attend class regularly and arrive on time.
- Students are expected to be prepared for class each day, with materials needed to successfully participate (items required for your current unit (articles, data, etc., are the minimum expectation).
- Students are expected to participate in class. This includes taking notes and working on their research project **AT ALL TIMES**.
- **Academic Dishonesty:** If you are suspected of plagiarism on **any** unit, **or** the research project you will receive a zero and a referral to the assistant principal. **All work must be properly cited.**
- Finally... **YOU ARE EXPECTED TO WORK ON YOUR OWN TIME!!!** If you expect to do well solely off of your in-class time, you are mistaken. This is a college course, and as such it requires that you spend time outside of class studying!

Course Outline

<u>Unit</u>	<u>Approx. Time in Unit</u>	<u>Topics</u>
9	2 Weeks	Identifying a Community Problem
10	5 Weeks	Literature Review
11	3 Weeks	Methodology and Data Collection
12	3 Weeks	Data Analysis
13	2 Weeks	Reporting Findings
14	3 Weeks	Presenting Research Findings