

Statistics (2nd Semester)

Science Lab 1 (Sourou)

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Textbook: *Statistics in Action 2nd ed.*, Key Curriculum Press. 2008

Needs: Folder, notebook (for class notes), lab notebook (quad. ruled paper), graphing calculator (TI-84 preferred), USB key, ruler, and pen or pencil.

Goals and Objectives:

1. Use the vocabulary of statistics when exploring data, looking for patterns, and making inferences.
2. Use formalized procedures to collect data in experiments and surveys.
3. Understand the basic concepts of probability and use probability theory to predict outcomes of random events.
4. Use technology (graphing calculators) and computer software to illustrate and present statistical information.
5. Use statistical data and reasoning skills to make inferences and communicate them in a clear written format.

Statistics Units:

1. Exploring Data (4 weeks)
2. Sampling and Experimentation (2 weeks)
3. Anticipating Patterns (5 weeks)
4. Statistical Inferences (4 weeks)
5. Individual Project (3 weeks)

Assessment:

Participation	Lab Investigations	Homework Problems
Journaling	Oral Presentations	Projects
Quizzes	Tests	

Grading: At the end of each grading period the points will be totaled and the percentages calculated. Grades will be assigned as follows:

93-100%	A	
90-92	A-	Tests & Quizzes 40%
87-89	B+	Investigations & Projects 40%
83-86%	B	Homework & Class Participation 20%
80-82%	B-	
77-79%	C+	You will be given a password to check
73-76%	C	your grades on Edline . Be sure to
70-72%	C-	check often throughout the year.
67-69%	D+	
63-66%	D	
60-62%	D-	
Below 60%	F	

Final Exam Project: For the final exam project, options will be given to collect, present, and interpret original data. A report will be written on how the process was conducted and the results obtained. On the day of the exam, you will present your project with a display and an oral report.

Student Behavior: Students are expected to respect the rights of others to learn, failing to do so will result in disciplinary action. (See ISO's Code of Conduct.)