**Introduction to Statistics
Teacher: Ms. Burchfield**

**Contacting Ms. Burchfield**
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**classroom:** E17B

**phone**: 410-228-4747 ext. 1726

Ms. Burchfield can frequently be found in her classroom at lunch and after school. However, the safest thing to do if you need to meet with Ms. Burchfield is to e-mail her to set up an appointment.

**Statistics**

Welcome to Statistics! Statistics is a full-year course designed to develop students' problem solving and reasoning skills, to apply models to real-world data, and to communicate results effectively to others. Over half of all college majors require working with models and numerical information at the university level, making this course the foundation of many future opportunities.

The course will focus on the Maryland Standards for Mathematical Practice.

1. Make sense of problems and persevere in solving them.

2. Reason abstractly and quantitatively

3. Construct viable arguments and critique reasoning of others.

4. Model with mathematics.

5. Use appropriate tools strategically.

6. Attend to precision.

7. Look for and make use of structure.

8. Look for and express regularity in repeated reasoning.



http://xkcd.com/552/

**Topics of Study**

Unit 1: Types of Statistics and Data

Unit 2: Frequency Distributions and Graphs

Unit 3: Central Tendency, Variation, and Position

Unit 4: Probability and Counting Rules

Unit 5: Discrete Probability Distributions

Unit 6: The Normal Distribution

Unit 7: Confidence Intervals and Sample Size

Unit 8: Hypothesis Testing

**Resources and Materials**

**Textbook:** *Elementary Statistics: A Step by Step Approach*, 7th ed., Bluman

**Weebly:** all handouts, including assignments, are provided both physically and electronically on our course Weebly page. The Materials page contains links to study resources. The Homework page displays deadlines and upcoming quizzes and tests. You should check this webpage if you have questions and if you missed class.

**Materials:** you should bring the following materials to class every day unless otherwise specified:

* A TI-84 calculator is provided for class as part of a class set. Do not forget your calculator number!
* Pencils and erasers.
* Notebook and graph paper.

 **Grading Policy**

All grades at CSD are weighted according to the following categories:

Per Quarter:

* **Formative (40%):** You will be assigned frequent problem sets and activities to practice your skills.
* **Summative (60%):** The posters and papers you create in groups; tests and quizzes; and any other assessment that ends a unit are summative assessments.

Per Semester:

* **First Quarter (45%)**
* **Second Quarter (45%)**
* **Final Exam (10%):** A cumulative exam is given at the end of each term.

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| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| 90-100% | 80-89% | 70-79% | 60-69% | Below 60% |

The gradebook is located in PowerTeacher. Late assignments are indicated by a “zero.” If an assignment is late due to absence, a comment will accompany the score with the modified due date. A “.01” in the gradebook indicates an assignment for which the student was present but did not submit work. This will be accompanied by the comment “present but no work.” Students may make up .01 assignments for partial credit until the summative is given.

**Collaboration and Citation**

Collaboration and citation are very important to STEM fields. Source material should be listed. Equal collaborators should be acknowledged by having their names at the top of an assignment. If a classmate contributed less than equally, that classmate should be acknowledged with a note within the assignment. You are welcome to check your homework and classwork by collaboration or with the use of technology but be sure to attempt the work yourself and clarify misunderstandings ASAP. Copying does not constitute collaboration; if you did not contribute anything to an assignment, your name should not be on it. Exams are **not** collaborative.

**Absences and Late Work**
If you are absent for any reason, check Weebly for assignments and contact Ms. Burchfield to let her know why you are absent and to make a plan to make up the work you missed. You will have an additional day to turn in homework that is due the day after your absence. Late work will be penalized by 10% unless an extension was granted.