

# **Probability and Statistics**

2023 - 2024

## **Contact Information**

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## **Course Overview**

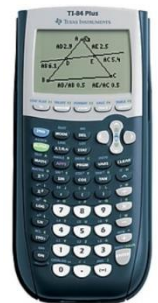
The purpose of this class is to introduce students to the thought processes behind the fundamental concepts of probability and statistics. Students will investigate methods of gathering data, summarizing data graphically and numerically, computing probabilities, and creating simulations to make inferences about a population based on a sample. Students in this course must have successfully completed Algebra II.

## **Student Expectations**

- Arrive ready (with all needed materials) and on time
- Remove your phone from your work area to limit distraction
- Complete homework on time
- Ask questions
- Take notes
- Be willing to help others
- Respect your instructor, your classmates, and yourself

## **Daily Supplies Needed**

- Pen and pencil (You will need both)
- Highlighter
- Chromebook
- Calculator, TI-83/84 models work best for our class



## **Grades/Content/Collection of Evidence:**

Grades will be determined 100% on a collection of evidence on the following standards:

- One Variable Data
- Two Variable Data
- Data Collection
- Probability
- Random Variables
- Sampling Distributions
- Testing a Claim

## Collection of Evidence:

All students will generate a collection of evidence to demonstrate their understanding and mastery of each standard. There will be multiple opportunities embedded within the course content for students to demonstrate their level of achievement for each standard.

## Grading Scale

Letter Grade:	A
Minimum Percent:	92.5
Letter Grade:	A-
Minimum Percent:	89.5
Letter Grade:	B+
Minimum Percent:	86.5
Letter Grade:	B
Minimum Percent:	82.5
Letter Grade:	B-
Minimum Percent:	79.5
Letter Grade:	C+
Minimum Percent:	76.5
Letter Grade:	C
Minimum Percent:	72.5
Letter Grade:	C-
Minimum Percent:	69.5
Letter Grade:	D+
Minimum Percent:	66.5
Letter Grade:	D
Minimum Percent:	62.5
Letter Grade:	D-
Minimum Percent:	59.5
Letter Grade:	F
Percent:	below 59.5

## Guiding Practices

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### Homework

Homework is an opportunity for students to practice skills, apply knowledge, review and build on past learning, and extend learning. Homework is individualized and based on each student's progress towards established standards. The purpose of the assignment will determine whether or not a grade is given and will be clearly articulated to students. Through independent learning tasks (homework), students assume more responsibility for their learning and are given opportunities to apply what they have learned to new situations or experiences.

## Extra Credit and Bonus Points

To ensure that grades reflect progress toward and achievement of the standards, giving extra credit points or bonus points will not occur in this class.

### Absences

Students are expected to attend and actively engage in class each day.

If you do miss a class, please be responsible and talk to the teacher about what you have missed. If you miss an assessment, you will be expected to make it up in a timely manner. If you miss the review day before the test, it will be the expectation that you take the test when you return. The only exception would be if new material was covered that day.

If you have a planned absence for family reasons or school activity, please let your teacher know it advance. If it is possible, please make up the material before being gone. If not, please make up in a timely manner. The class will continue, so we don't want you to get further behind.

### Need Help?

Practice the skills being taught daily, ask questions during class, take notes, and pay attention in class. I want each of you to do the very best job you can in your study of mathematics. I really enjoy solving math problems and I hope math will be fun for you as well. ☺

Still, you may need extra help at some time during this year. Individual help is available with me, by appointment. Get help right away when you need it! Do not wait until right before a summative assessment.

### Behavioral Expectations

The work habits/behavior standards are for grades 6-12 courses in our district. These work habits/behavior standards will be reported throughout the semester and are as follows:

- Organization and Readiness
- Productivity and Accountability
- Collaboration Skills

For those of you accessing this document electronically, the work habits tool can be accessed online: [Work Habit Online Link](#). We will be using the following performance levels:

### Performance Levels for Work Habits/Behavior Standards:

**MS** represents Meets Standard

**PM** represents Partially Meets Standard

**DM** represents Doesn't Meet Standard

**NE** represents No Evidence at this time

These descriptors are intended for feedback and communication and do not impact a student's GPA.

### ***Regarding the New High School Credit Law***

*In accordance with a new Iowa law awarding non-high school students HS department credit, Ankeny will be awarding department (Math, Modern Language, PE) credit for any high school course they have taken - such as Algebra I, Spanish I, French I and in some cases, Geometry or Algebra II. While Ankeny Community Schools will be awarding department credit as per the law, students will **not** have that grade calculated into a grade point average based on their performance in the class. This means they will receive a letter grade on their report card and their transcript but that letter grade will not be included in their grade point average.*

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*Ankeny Community School District does not discriminate based on race, color, creed, religion, national origin, sex, gender identity, age, disability, marital status, sexual orientation, physical attributes, physical or mental ability or disability, ancestry, political party preference, military affiliation, socioeconomic status, or familial status. Inquiries or grievances may be directed to Kenneth Morris, Director of Equity, 306 SW School Street, 16 P.O. Box 189, Ankeny, IA, 50021-0189, (515) 965-9600, [kenneth.morris@ankenyschools.org](mailto:kenneth.morris@ankenyschools.org); or the Iowa Civil Rights Commission, Grimes State Office Building, Des Moines, IA, 50319-0201, (515) 281-4121; or the U.S. Department of Education, Office for Civil Rights, 500 West Madison Street, Suite 1475, Chicago, IL 60661.*