

Statistics Course Syllabus

Teacher: Mr. Stanton

Room: 331

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Course Description:

This course introduces students to statistical exploration. Basic statistical skills are covered enabling students to interpret and analyze statistical data. Data collection techniques, probabilities, and standard distributions are used to enhance students' analysis skills with everyday statistics.

Required Text: Introductory Statistics – Exploring The World Through Data.

Course Content:

Chapter 1: Introduction to Data
Chapter 2: Picturing Variation with Graphs
Chapter 3: Numerical Summaries of Center and Variation
Chapter 4: Regression Analysis: Exploring Associations between Variables
Chapter 5: Modeling Variation with Probability
Chapter 6: Modeling Random Events: The Normal and Binomial Models
Chapter 7: Survey Sampling and Inference
Chapter 8: Hypothesis Testing for Population Proportions

Course Evaluation:

Highland Universal Grading Scale

A+ = 98-100	A = 93-97	A- = 90-92
B+ = 87-89	B = 85-86	B- = 83-84
C+ = 81-82	C = 76-80	C- = 74-75
D+ = 72-73	D = 67-71	D- = 65-66
F = ↓ 65		

The following categories will be used as percentages to calculate your overall grade.

WAC – 5%

Daily Work - 35%

Tests - 60%

There is no rounding on quarter or semester grades. In other words 89.99 is a B+ whereas 90.00 is an A-.

WAC – Writing Across the Curriculum

You will be required to write one essay per quarter pertaining to mathematics. This writing will be graded as 5% of your quarter grade. The attached rubric will be used to evaluate your writing. You will be required to revise your writing until it reaches a minimum of 3 (proficient) on the rubric in all categories before the end of the quarter. Your topics will be given to you at the beginning of the quarter and your final revision will be due at the end of the quarter.

Daily Work:

Homework will be given daily. All homework will be due at the end of the chapter, but it is in your best interest to do the assignment as completely as possible **the day the homework is assigned**. Questions may be asked the following day, but I will only take a limited amount of questions. Homework is a tool for you to use that will ensure your understanding of the material. **IT IS YOUR RESPONSIBILITY TO COMPLETE THE WORK. YOU WILL BE RESPONSIBLE TO KNOW THE MATERIAL!**

Homework Expectations:

To receive full credit:

- Complete work neatly
- Include a heading in the upper right hand corner (name, class, assignment, and date)
- **SHOW ALL OF YOUR WORK.**
- Homework can be checked in two parts
 - Correctness
 - 3-6 problems will be chosen at random to be checked for correct answers
 - Completeness
 - All other problems will be checked to see if they are complete, not necessarily correct.
- Late homework will be accepted for a maximum of 50% until the day of the exam for the chapter

Quizzes and Test:

There will be no quizzes and one test per chapter.

Test Makeup Guidelines:

A student who is absent the day of a test has two school days to make up the quiz/ test. Other circumstances will be dealt with individually. If you feel that you have a unique circumstance that deserves an exception, **please talk to me in advance.**

Retake/Redo Guidelines:

Any student may retake a test within one week of the previous test for full credit regardless of the initial grade. In order to retake a test, all homework must be completed at a passing grade. A retake form that must be completed before every retake.

Website:

My website can be accessed from the Highland High School webpage by following the links from high school, to high school staff, then by clicking on the website link below my name.

There will be valuable links to each class that will include; an outline of the notes we will cover in class, the homework from that week, and videos that are recorded every day from the lecture in class. These videos are of the SMART board and my voice, and can be very helpful when studying outside of school or in case of an absence.

This is also where you will find the link and password to Hotmath.com, which is a homework help website that links directly to our textbooks. When used correctly this can be a great tool to achieve a higher understanding of the material.

Flipped Classroom:

Occasionally I will be doing what's called a flipped classroom. This is where you will watch the video of the lecture the **night before class**. Then, class time will be used for homework. This way I am available to help you with all of the homework and it will give us more time to have discussions about concepts and analysis of the material.

This only works if you commit to watching the videos and taking notes ahead of time! You will not be able to complete the homework in class without first watching the lesson.

If you do not have access to high speed internet at home, I have flash drives that I will load the video lessons onto and you will be allowed to check out both a flash drive and a netbook if needed. PLEASE TALK TO ME AHEAD OF TIME IF THIS IS THE CASE.

General Classroom Policies:

The classroom is a place for learning and exploration. Failure is simply our First Attempt In Learning. As such, it is essential that each of us work to create and maintain that environment. To that end each student is expected to:

- Come to class on time, **with all required materials**, ready to learn
- Actively participate; both in individual and group work, as well as discussion
- Respect each other, the teacher, and the environment
- Take responsibility for your learning, **ask questions when necessary**
- Any violations of school rules or disrespect will be subject to:
 - Verbal reminders
 - Retention after class/resource/school
 - Office referral
 - Detention & parent contact
- Encourage active participation and healthy group discussions by:
 - Acknowledging participation – even if incorrect
 - Allowing explanations
 - No negative comments such as “That’s so dumb”
 - Any other words/phrases I find offensive
- CELL PHONES/HEADPHONES/CHROMEBOOKS/ETC.
 - There will be **no electronics** allowed in the classroom for any reason unless otherwise stated
 - If you are using it in the hallway it needs to be put away **before you enter my room**
 - If I **see** or hear (even on vibrate) a cell phone I will take it and it can be picked up at the end of the day.

Name: _____

Date: _____

Essay Rubric

Directions: Your essay will be graded based on this rubric. Consequently, use this rubric as a guide when writing your essay and check it again before you submit your essay.

Traits	4	3	2	1
Focus & Details	There is one clear, well-focused topic. Main ideas are clear and are well supported by detailed and accurate information.	There is one clear, well-focused topic. Main ideas are clear but are not well supported by detailed information.	There is one topic. Main ideas are somewhat clear.	The topic and main ideas are not clear.
Organization	The introduction is inviting, states the main topic, and provides an overview of the paper. Information is relevant and presented in a logical order. The conclusion is strong.	The introduction states the main topic and provides an overview of the paper. A conclusion is included.	The introduction states the main topic. A conclusion is included.	There is no clear introduction, structure, or conclusion.
Voice	The author's purpose of writing is very clear, and there is strong evidence of attention to audience. The author's extensive knowledge and/or experience with the topic is/are evident.	The author's purpose of writing is somewhat clear, and there is some evidence of attention to audience. The author's knowledge and/or experience with the topic is/are evident.	The author's purpose of writing is somewhat clear, and there is evidence of attention to audience. The author's knowledge and/or experience with the topic is/are limited.	The author's purpose of writing is unclear.
Word Choice	The author uses vivid words and phrases. The choice and placement of words seems accurate, natural, and not forced.	The author uses vivid words and phrases. The choice and placement of words is inaccurate at times and/or seems overdone.	The author uses words that communicate clearly, but the writing lacks variety.	The writer uses a limited vocabulary. Jargon or clichés may be present and detract from the meaning.
Sentence Structure, Grammar, Mechanics, & Spelling	All sentences are well constructed and have varied structure and length. The author makes no errors in grammar, mechanics, and/or spelling.	Most sentences are well constructed and have varied structure and length. The author makes a few errors in grammar, mechanics, and/or spelling, but they do not interfere with understanding.	Most sentences are well constructed, but they have a similar structure and/or length. The author makes several errors in grammar, mechanics, and/or spelling that interfere with understanding.	Sentences sound awkward, are distractingly repetitive, or are difficult to understand. The author makes numerous errors in grammar, mechanics, and/or spelling that interfere with understanding.
Reviewer's Comments				

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Highland, WI 53543

- ☐ I understand the homework policy and agree that math requires repetition to achieve mastery; therefore time should be spent on math outside of class. **This time varies depending on the individual and difficulty of the material.** Adequate time should be spent to achieve desired level of mastery.
- ☐ I understand the quiz and test policy, and agree to take advantage of every opportunity given to improve in mathematics.
- ☐ I am aware of the website and the resources it provides.
- ☐ I understand the flipped classroom and agree to watch all necessary videos, when assigned, to be prepared for class.
- ☐ I have read the student contract and understand the course requirements, guidelines and classroom policy for math class.
- ☐ I understand that **my grade in this class is a reflection of how well I know the material and not based on effort.**
- ☐ I understand the **zero tolerance policy for cell phones/headphones** in the classroom.

Date: _____

Student's Signature _____

Parent/Guardian Signature _____