Math 255 - Fall 2022 Syllabus

Professor:	Dr. Nathan Wetzel		Office: SCI D352
Office Hours	M W F	9 - 9:50 am	Department phone:
	T R	11 - 11:50 am	715 346-2120
	or by arrangement email nwetzel@uwsp.edu to get a Zoom link.		
Classroom times	Math 255 (SCI A202) MT RF 8 - 8:50 am		
	Math 119 (SCI A208) MT RF 10 - 10:50 am		
	Math 255 (SCI A202) MT RF 1 - 1:50 pm		

Text: Introduction to the Practice of Statistics, 10th Ed. by Moore, McCabe and Craig.

Supplemental Material: See me regarding possible supplemental texts and user guides. I am also trying to post helpful materials on Canvas.

Calculators and Computers: A calculator will be necessary in this course (one which calculates means and standard deviations) and may be used on exams. If you are going to purchase a calculator for this course, please see me for recommendations. You MAY NOT use your cell phone calculator on exams nor quizzes. (Specifically, you may not use a device that can communicate with others.) The computer software MINITAB will be used extensively in this course.

Prerequisites: Math 95 or a suitable placement test score.

Course Goals: Students are expected to understand statistical concepts. We will cover the first 9 chapters of our text. Chapter 1 - *Looking at Data - Distributions*, Chapter 2 - *Looking at Data - Relationships*, Chapter 3 - *Producing Data*, Chapter 4 - *Probability: The Study of Randomness*, Chapter 5 - *Sampling Distributions*, Chapter 6 - *Introduction to Inference*, Chapter 7 - *Inference for Means*, Chapter 8 - *Inference for Proportions*, and Chapter 9 - *Inference for Categorical Data*. If time allows, we will cover selected material from Chapter 12 - *One-Way Analysis of Variance*. Critical understanding of the concepts will be necessary. Extra material may be discussed and, when necessary, notes will be distributed. Thinking is required.

This course will satisfies the Quantitative Literacy component of the General Education Program. This means that: After completing this course, students will be able to: (1) Select, analyze and interpret appropriate numerical data used in everyday life in numerical and graphical format, (2) identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications, and (3) construct a conclusion using quantitative justification. In almost every day of class, we will use real data. You will be asked to explain your answers on tests and quizzes, so we will practice this with the real data used in class time. Occasionally, these will be referred as QL LO (Quantitative Literacy Learning Outcome) and then a number.

Evaluation: We will have three in-class exams and one final exam. We will also have 4 or 5 scheduled quizzes. We will also have homework assignments to hand-in. Attendance is expected at every class meeting. It is the student's responsibility for making prompt arrangements with the instructor for making up assigned work. Late assignments will have a 10% reduction in points for each weekday late and after 3 days will be given a 0.

As with most math courses, it is very important to DO problems. As a student, **your** responsibility is first, to seriously attempt to do all of the problems. If you succeed at all of them, go surf the Internet, play a video game, or study for another class. (I put this in here so that you will know that I don't assume that this is your only class - it will only seem like I assume this.) However, if you identify difficulties, your second responsibility is to resolve the difficulties with help from the text, friends, me, etc.

Most days I will give a list of suggested problems. At a *minimum*, you should do these. If you want comments and/or corrections on a particular problem, hand it in to me and I will correct it. **Extra Credit:** You may choose to hand-in your solutions to these suggested problems. I will choose a few problems and grade them (out of 0.5 points). These points will be added to your score on the next test however, the maximum number of points that you can add is $(100 - \text{your score})/5$. Points accumulated after Test 3 will be added to the final. I DO NOT want to see solutions which are copied from the back of the book (BOB). Extra credit problems are typically due two class periods after appearing on the board and will not be accepted late. This extra credit policy is subject to change.

Grading: Grades will be based on the following percentages Quizzes (four or five quizzes) and Hand-in Homework - 25%, Tests - 45% (15% each) , Final - 30%. A weighted average will be computed and if it is $\geq$ 93% then the grade will be an A, if it is $\geq$ 90%, then the grade will be at least an A-, if it is $\geq$ 87%, then the grade will be at least an B+, if it is $\geq$ 83%, then the grade will be at least an B, if it is $\geq$ 80%, then the grade will be at least an B-, etc. My opinions is that it should be a CHALLENGE to get an A.

The instructor reserves the right to exercise discretion in raising a student's grade if he feels that the final weighted average does not properly reflect the quality of a student's work. The instructor will not use discretionary judgments to lower a student's final grade. Exceptions to the grading policy above will only be considered if submitted in writing and verbally before the drop deadline. For example, you may petition to submit an essay to substitute for part of the second test, but this should be done before the second test.

A grade of **incomplete** may be given when circumstances arise which are beyond the student's control and the student is unable to complete the course AND the student is passing when the circumstances arose.

General Course Policies:

1. Tests and quizzes must be ONLY your own work. I encourage you to work together on homework (unless otherwise specified), but the material you turn in must be your own. Duplicate copies will have their score divided by the number of copies.

2. Without advanced notice, my policy is not to allow make-up tests or quizzes. An exception *is likely to* be made, provided you make your request in advance of the test or quiz. In "emergency" situations call the department office (x2120) BEFORE the test. You must be prepared to document your absence.

3. Appeal of grading should be submitted in writing within 5 days of receiving the evaluation.

4. Special consideration may be made for students with disabilities. See http://www.uwsp.edu/disability/

5. UWSP Community Rights and Responsibilities can be found at the For Students section of the Dean of Students website http://www.uwsp.edu/dos

6. Pagers and cell phones should be turned off during class time. The instructor considers texting during class time to be rude. Earphones/buds may not be used during a quiz, test or exam. Smartwatches must be stored in your book bag during tests and quizzes.

7. Copyright and File Sharing: Posting instructor-created course material onto course-sharing websites directly violates the instructor's copyright on his/her academic materials. These materials are provided for your convenience as an aid to learning. Permission to post instructor-created material on any such site is unequivocally denied.

Suggestions:
Read the book.
This means think as you read
Attend class.
Keep up on the problems.
Ask Questions before class.
Ask Questions of classmates.
Ask Questions in STEM Tutoring
    (CBB 190)
DO NOT fall behind
Questions and/or homework
may be submitted with e-mail
to *nwetzel@uwsp.edu* but you
must use pdf format for homework.
Please use your initials as the first
three characters of the file name.
For example, my first assignment
would be named NRW_A1.pdf

Tentative Calendar

Week	Mon	Tues	Thur	Fri
week of Sept 5	No Class			
week of Sept 12				Quiz 1
week of Sept 19				
week of Sept 26				
week of Oct 3	Test 1			
week of Oct 10			Quiz 2	
week of Oct 17				
week of Oct 24				Test 2
week of Oct 31				
week of Nov 7				
week of Nov 14		Quiz 3		
week of Nov 21			Thanksgiving - No class	
week of Nov 28		Test 3		
week of Dec 5		Quiz 4		
week of Dec 12			Quiz 5?	Final Exam (5-7 pm)

I hope Test 1 will cover through chapter 2, Test 2 will cover through chapter 5, and Test 3 will cover through section 7.1. The final will cover all of the topics listed in Course Goals.