Math 357 - Spring 2021 Syllabus

Professor:	Dr. Nathan Wetzel		Office:	SCI D352
Office Hours	T R	10 - 10:50 am	Phone:	x4127
	M W F	11 - 11:50 am		
	or by arrangement			
Classroom times	Math/ME 350 (CCC 213)	MT RF 8 - 8:50 am		
	Math 357 (CCC 213)	T RF 9 - 9:50am		
	Math 112	Online		

Text: Mathematical Statistics with Applications by Wakerly, Mendenhall and Scheaffer, 7th Ed.

Supplemental Material: Mathematical Statistics and Data Analysis by Rice,
other books with Mathematical Statistics in the title,
Intro to Statistical Theory by Hoel, Port and Stone,
Introduction To Mathematical Statistics by Hogg and Craig,
and Probability and Statistical Inference by Hogg and Tanis.
Course materials and scores available in Canvas. Scores will only be updated after each test.

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. The Casio fs-9750GII, TI-83 or TI-84 would be particularly helpful. The computer software packages *Python, R, Minitab* and *Mathematica* and will be helpful for homework.

Prerequisites: Math 356 or 556

Course Goals: Students are expected to understand and apply statistical ideas. We will cover sections 6.5 and chapters 7 - 11 as well as miscelaneous topics from other parts of the book. Section 6.5 - *The Method of Moment Generating Functions*, Chapter 7 - *Sampling Distributions and the Central Limit Theorem*, Chapter 8 - *Estimation*, Chapter 9- *Properties of Point Estimators and Methods of Estimation*, Chapter 10 - *Hypothesis Testing*, Chapter 11 - *Linear Models and Estimation by Least Squares*. Extra material may be discussed and when necessary, notes will be distributed. Thinking is required.

Evaluation: We will have two in class exams, a final exam (the final may be a take-home exam), homework assignments, and quizzes. **There will also be an end of the semester project.**

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 work will have a 20% reduction in points possible for each weekday late and after 5 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.

Grading: Grades will be based on the following percentages Assignments and Quizzes - 35%, Tests - 30% (15% each) Project - 15% Final - 20%. 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.

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 (for example, because of one low exam score). 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 in writing to submit an essay which would substitute for a portion of the second test, but this should be done before the second test.

Incompletes: 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 arise.

General Course Policies:

1. In-class tests and quizzes must be ONLY your own work. If we have a take-home final, this also must be ONLY your own work.

2. Unless otherwise specified, I encourage you to work together on homework assignments. However, the work you turn in should be your own or designated as group work. Group work is acceptable, simply turn in one copy with the names of all group members.

3. My general policy is not to allow make-up tests or quizzes. An exception *may* 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. Exceptions are made, but never without advance notice. You must be prepared to document your absence.

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

5. Special consideration may be made for students with disabilities.

Suggestions:
Read the book.
This means think as you read.
Attend class.
Keep up on the problems.
Ask Questions before class.
Ask Questions during class.
Ask Questions after class.
Ask Questions of classmates.
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	Tues	Thurs	Fri
week of Jan 25			
week of Feb 1			
week of Feb 8			
week of Feb 15			Test 1
week of Feb 22			
week of Mar 1			
week of Mar 8			
week of Mar 15			
week of Mar 22	No Class - Spring Break		
week of Mar 28			??Test 2??
week of Apr 5		ALL ONLINE	ALL ONLINE
week of Apr 12			
week of Apr 19			
week of Apr 26			
week of May 3			
week of May 10			
week of May 11	Mon. 5/17 Final Exam 8 - 10 am		

Extra Issues for Spring 2021:

Some class days may be asychronous online. I will post a video and notes. You can view the video anytime that day. I will announce these days ahead of the class date.

Tests and Quizzes: (tentative plan)

- Tests and the Final will be during scheduled class time. For online students, my plan is to have the online test available for you at the start of class time and then your uploaded solutions will be due 60 minutes later. Students in class will have onto 52 minutes, but they won't have to upload any documents.
- For the two Tests (and maybe the Final), you must be available during the scheduled time. These times and dates are on the syllabus.
- Quizzes will be implemented online for everyone.
- All Quizzes, Tests and the Final are open book and open notes. The Tests (and maybe the Final) will be limited time.
  You may use any results from the 'blue sheet'. You may also use any reults that we have proved during class time or on a homework assignment. It would be best to cite the results and/or the pages. You may also use the answers to problems that we did. Results from other sources must be proved.
  Discussing problems from a Test or the Final with any person is cheating.

Face Coverings:

- At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the Disability and Assistive Technology Center to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

Other Guidance:

- Please monitor your own health each day using this screening tool. If you are not feeling well or believe you have been exposed to COVID-19, do not come to class; email your instructor and contact Student Health Service (715-346-4646).
- As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus.
- Maintain a minimum of 6 feet of physical distance from others whenever possible.
- Do not congregate in groups before or after class; stagger your arrival and departure from the classroom, lab, or meeting room.
- Wash your hands or use appropriate hand sanitizer regularly and avoid touching your face.
- Please maintain these same healthy practices outside the classroom