Math 356/556 - Fall 2018 Syllabus

Professor:	Dr. Nathan Wetzel		Office:	SCI D352
Office Hours	M	9 - 9:50 am	Phone:	715 346-4127
	W F	11 - 11:50 am		
	T R	2 - 2:50 pm		
	or by arrangement			
Classroom times	Math 356/556 (SCI D223) T RF	10 - 10:50 am		
	Math 355 (SCI A202) MT RF	12 - 12:50pm		
	Math 355H (SCI A202) MT RF	1 - 1:50pm		

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 Probability Theory by Hoel, Port and Stone, A First Course in Probability by Ross. Introduction To Mathematical Statistics by Hogg and Craig, and Probability and Statistical Inference by Hogg and Tanis. D2L or Canvas??

In addition, we will be doing a fair amount of technical writing. A nice reference for this kind of technical writing is available in the reference section at our library. It is called *The Chicago Guide to Writing about Numbers*, by Jane Miller (T11.M485 2004).

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 computer software *Mathematica* may also be helpful for homework.

Prerequisites: Math 121

Course Goals: Student are expected to understand and apply probability ideas. We will cover the first six chapters of the book. Chapter 1 - *What is Statistics?*, Chapter 2 - *Probability*, Chapter 3 - *Discrete Random Variables and Their Probability Distributions*, Chapter 4 - *Continuous Random Variables and Their Probability Distributions*, Chapter 5 - *Multivariate Probability Distributions*, Chapter 6 - *Functions of Random Variables*. We may have time to begin Chapter 7 - *Sampling Distribution and the Central Limit Theorem*. 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 might be a take-home exam), homework assignments, and memory quizzes.

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 10% reduction in points 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.

Office Hours: I strongly encourage you to come to my office and ask questions. I realize that the scheduled office hours are not convenient for everyone. Please contact me and we will find a time that is mutually convenient. One of the questions that I ask myself every semester is "Why didn't .... ask when he/she had questions?"

Grading: Grades will be based on the following percentages Assignments - 30%, Memory Quizzes - 14%, Tests - 36% (18% each) 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. All students are ultimately responsible for all of the material.

3. Plagiarism is NOT acceptable. Work labeled as your work should be your work.

4. 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.

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

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

7. 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.

8. 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.

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

Suggestions:
Read the book.
This means think as you read.
Attend class.
Keep up on the problems.
Ask Questions before, during
or 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 Sep 3			
week of Sep 10			
week of Sep 18			
week of Sep 24		Test 1	
week of Oct 1			
week of Oct 8			
week of Oct 15			
week of Oct 22			
week of Oct 29			
week of Nov 5		Test 2	
week of Nov 12			
week of Nov 19		No Class	No Class
week of Nov 26			
week of Dec 3			
week of Dec 10			
week of Dec 17	Final Exam - Mon. Dec. 17 8 - 10 am		