

# Math 355 - Spring 2017 Syllabus

Professor:	Dr. Nathan Wetzel		Office:	SCI D352
Office Hours	T	RF	9-9:50 pm	Phone: x4127
	M	W	1-1:50 pm	
	or by arrangement			
Classroom times	Math 355 (SCI A202)	TWRF	8 - 8:50am	
	Math 355 (SCI A202)	TWRF	11 - 11:50am	
	Math 112 (SCI D228)	MTWR	2 - 2:50pm	

**Text:** Introduction to the Practice of Statistics, 8th Ed. by Moore and McCabe.

**Supplemental Material:** See me regarding possible supplemental texts and user guides. I am trying to maintain files, etc. on D2L. We will see how that works.

**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 TI-83 or TI-84 will be particularly helpful. 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 100 or a suitable placement test.

**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 Distributions*, Chapter 8 - *Inference for Proportions*, and Chapter 9 - *Analysis of Two-Way Tables*. 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 satisfy 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.

**Evaluation:** We will have three in-class exams and one final exam. We will also have approximately 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 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.

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 reason, 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/Pages/default.aspx>
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 stowed 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 during class.
- Ask Questions after class.
- Ask Questions of classmates.
- Ask Questions in the Math Room (SCI A113A)
- DO NOT fall behind
- Questions and/or homework may be submitted with e-mail to [nwetzel@uwsp.edu](mailto:nwetzel@uwsp.edu) but you must use pdf format for homework.

Tentative Calendar

Week	Tues	Wed	Thur	Fri
week of Jan 23				
week of Jan 30			Quiz 1	
week of Feb 6				
week of Feb 13				Test 1
week of Feb 20				
week of Feb 27		Quiz 2		
week of Mar 6				
week of Mar 13			Test 2	
week of Mar 20	No Class - Spring Break			
week of Mar 27				
week of Apr 3		Quiz 3	No Class?	No Class?
week of Apr 10				
week of Apr 17		Test 3		
week of Apr 24				
week of May 1				Quiz 4
week of May 8				Quiz 5?
week of May 15	Mon. May. 15 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.