

## Math 112 - Spring 2022 Syllabus

Professor:	Dr. Nathan Wetzel			Office:	SCI D352
Office Hours	MT RF	10 - 10:50 am		Phone:	715 346-2120
	W	12 - 12:50 am			
	or by arrangement				
	email <a href="mailto:nwetzel@uwsp.edu">nwetzel@uwsp.edu</a>				
	to get a Zoom link.				
Classroom times	Math 255 (SCI A202)	MT RF		8 - 8:50 am	
	Math 357(SCI A208)	MT R		9 - 9:50am	
	Math 112 (SCI A202)	T R		12 - 12:50pm	

**Text:** Trigonometry, 9th Ed. by Larson and Hostetler

### Supplemental Material:

**Calculators and Computers:** A scientific calculator will be necessary in this course (one which calculates, sines, and cosines). Some quizzes and/or parts of exam may require a calculator. Other parts might now allow calculator use. A graphing calculator is recommended, however a calculator with a computer algebra system (for example a TI-92 or TI-Nspire CAS) is prohibited.

**Prerequisites:** Math 107 or a suitable placement test.

**Course Goals:** Students are expected to understand trigonometric concepts. We will cover most of the first 3 chapters of our text. Chapter 1 - *Trigonometry*, Chapter 2 - *Analytic Trigonometry*, and Chapter 3 - *Additional Topics in Trigonometry*. Critical understanding of the concepts will be necessary. Extra material may be discussed and when necessary, notes will be distributed. Thinking is required.

**Evaluation:** We will have daily homework, weekly quizzes, two exams and one final exam.

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.

**Daily Homework and Suggested Problems:** For most class periods, I will post a few Daily Homework problems on Canvas. These will be due on Wednesdays and Fridays at 1:00 pm. These are required.

Most days I will also give a list of suggested problems. At a *minimum*, you should do these. If you want comments and/or corrections on a particular problem, email it to me and I will correct it.

**Most questions on the Quizzes, Tests and Final will be similar to these Daily Homework and Suggested problems.**

Quizzes will typically be due by 11:59 pm on Sundays. Tests will be during class time.

The Quizzes will be done in Canvas. They will be timed and NOT involve any partial credit.

Daily Homework, Tests and the Final will have partial credit.

Late work: Nothing will be accepted late. I will drop the 3 lowest of the Daily Homework scores.

**Grading:** Grades will be based on the following percentages Daily Homework - 26%, Quizzes - 26%, Tests - 24% (12% each), Final - 24%. 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. 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 which would substitute for part 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.

**HELP:** There will be tutoring available. Watch Canvas announcements for more info.

**General Course Policies:**

1. Tests and quizzes must be ONLY your own work. I encourage you to work together on Daily 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. 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 may be made in extreme circumstances. 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.
- DO NOT fall behind

**Tentative Calendar**

Week	Tues	Thur	Sun
week of Jan 24	DH	DH	Quiz Prelim
week of Jan 31	DH	DH	Quiz(s) 1.1
week of Feb 7	DH	DH	Quiz(s) 1.2
week of Feb 14	DH	DH	Quiz 1.3
week of Feb 21	DH	DH	Quiz 1.4
week of Feb 28	Review	Test 1	
week of Mar 7	DH	DH	Quiz 1.5
week of Mar 14	DH	DH	Quiz 1.8
week of Mar 21	Spring	Break	
week of Mar 28	DH	DH	Quiz 2.1/2.3A
week of Apr 4	DH	DH	Quiz 2.3
week of Apr 11	Review	Test 2	
week of Apr 18	DH	DH	Quiz 2.4
week of Apr 25	DH	DH	Quiz 3.1AB
week of May 2	DH	DH	Quiz 3.1C or Quiz 3.2
week of May 9	DH	Review	
week of Mar 17	Final Exam 8-10 am Tues. May 17		

Questions and/or homework may be submitted with e-mail to [nwetzl@uwsp.edu](mailto:nwetzl@uwsp.edu)

## Math 255 - Spring 2022 Syllabus

Professor:	Dr. Nathan Wetzel			Office:	SCI D352
Office Hours	MT RF	10 - 10:50 am		Phone:	715 346-2120
	W	12 - 12:50 am			
	or by arrangement email <a href="mailto:nwetzel@uwsp.edu">nwetzel@uwsp.edu</a> to get a Zoom link.				
Classroom times	Math 255 (SCI A202)	MT RF	8 - 8:50 am		
	Math 357 (SCI A208)	MT R	9 - 9:50am		
	Math 112 (SCI A202)	T R	12 - 12:50pm		

**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 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. 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.
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### 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 [nwetzl@uwsp.edu](mailto:nwetzl@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 Jan 24				
week of Jan 31			Quiz 1	
week of Feb 7				
week of Feb 14				Test 1
week of Feb 21				
week of Feb 28		Quiz 2		
week of Mar 7				
week of Mar 14			Test 2	
week of Mar 21	No Class - Spring Break			
week of Mar 28			Online Class	Online Class
week of Apr 4		Quiz 3		
week of Apr 11				
week of Apr 18	Test 3			
week of Apr 25				
week of May 2				Quiz 4
week of May 9			Quiz 5?	
week of May 16	Mon. May 16 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.