

MATH 117 TRIGONOMETRY 3 Semester Hours WKU On Demand

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Course Description: This course provides students with the ability to understand and apply mathematical skills and concepts. Math 117 students will understand: the unit circle; trigonometric functions and graphs; trigonometric identities and equations; right triangle trigonometry; laws of sines and cosines; DeMoivre's Theorem; vectors and applications of trigonometry. Further, students will learn to model and solve problems appropriate for fields of scientific study.

Learning Objectives: This course fulfills the Quantitative Reasoning requirement in the Foundations category of WKU's Colonnade program. As part of that program, Math 117 has the following learning objectives: Students will demonstrate the ability to

1. Interpret information presented in mathematical and/or statistical forms.
2. Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.
3. Determine when computations are needed and execute the appropriate computations.
4. Apply an appropriate model to the problem to be solved.
5. Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

Prerequisites: At least one of the following criteria must be met to enroll in Math 117:

- WKU Math Placement Exam score ≥ 18 AND Math ACT ≥ 22
- Completion of MATH 116 with a grade of C or better

Materials: Textbook: **Trigonometry:Guided Notebook** by Kirk Trigsted, 2nd, 2015 provided on BLACKBOARD for you to print!!!!

- **A subscription to MyMathLab is required.** Stand-alone online access can be purchased at the bookstore or online via MyMathLab. Check prices; it might be cheaper to purchase directly from Pearson on MyMathLab! See the fourth page of this syllabus for registration instructions.
- **Each student will need a graphing calculator for use with assignments.** The TI-84 is preferred, and instruction for these models will be given. TI-89s and TI-92s are prohibited. Cell phone calculators are not permitted!
- **Each student needs regular, reliable internet access.** You need to have a back-up plan for when your internet access is down. Any equipment problems (including internet outages) will not be considered a valid excuse for missing assignments!

Course website: We will be using WKU's Blackboard (as the homepage) and Pearson's MyMathLab as technology based instruments for this course. Class notes, assignments, and announcements will be posted there. ***Please note I want you to use your WKU EMAIL address in both the Blackboard and the MyMathLab accounts to which most course announcements will be sent.***

Homework: Homework will be assigned via MyMathLab. The homework will be opened based on your completion of reading assignments. Organizing and keeping the paper work you used to complete your homework will be beneficial in preparing for exams. There will be a review to complete before each exam that is taken and you must complete it with a score of at least 80% before you can take an exam....HOWEVER, the review for the exam is NOT a part of your grade.

Quizzes: These quizzes will be online quizzes using MyMathLab. You will be permitted to take these quizzes at your home during your leisure time...but these quizzes will be timed. You will be allowed a maximum of 60 minutes to complete a quiz. You need to watch your time...after 60 minutes the quiz will end whether you are done or not. I do this so that you are not just trying to open a textbook or your notes continuously....practice will help. There will be NO adjustments in the

scores you receive on the quizzes, since you will be taking them in an unsecured setting....i.e. not a testing center, but your home. You will be allowed TWO attempts per quiz of which the highest score will be recorded.

Exams: Exams WILL always be paper and pencil and must be taken in a proctored setting of your choice. Exams will be paper and pencil so that I can see what you have learned. You will not get back any physical copies of exams, but I will provide feedback via email or you can come see me and we can review what you missed. You will be allowed TWO attempts per exam of which the highest score will be recorded. And you cannot take two exams on one day. For the final, you will be allowed ONE and ONLY one attempt. So make sure you are ready. In summary, there will be TWO regular exams (each with a maximum of two attempts) and a final exam (with only one attempt). The final exam will be comprehensive.

Course Grade: A weighted average for this course will be calculated using the following scale.

Homework	10%	Letter grades will be assigned from the weighted average using the following grading scale.
Quizzes	10%	
Module Exams	60% (30% each)	A 90 – 100
Final Exam	20%	B 80 - 89
		C 70 - 79
		D 60 - 69
		F 59 and below

Gradebook: Grades will be posted on Blackboard and on MyMathLab. Your overall average on MyMathLab is usually very accurate, however I reserve the right to make gradebook corrections to keep it consistent with the syllabus. If you see something that doesn't make sense, please alert me.

ADA Statement: In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Student Accessibility Resource Center (SARC) in Downing Student Union 1074. The SARC telephone number is (270) 745-5004; TTY is (270) 745-3030. Per university policy, please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the SARC.

Academic Dishonesty: Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the coursework in which the act is detected or a failing grade in the course without possibility of withdrawal. The faculty member may also present the case to the Office of Judicial Affairs for disciplinary sanctions.

MyMathLab Registration Instructions

Retaking the course?

If you are retaking this course with the same book, be sure to use your existing Pearson username and password. You will not need to pay again.

To register for [Ayers Math 117 On Demand beginning June 2106](#)

1. Go to www.MyMathLab.com.
2. Under Register, select Student.
3. Confirm you have the information needed, then select OK! Register now.
4. Enter your instructor's course ID: ayers47143 and Continue.
5. If you don't have an account, select Create and complete the required fields.
If you have an account Enter your existing Pearson account username and password to Sign In.
 - You have an account if you have used a Pearson product, for example: MyMathLab, MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.
6. Select an access option.
 - Use the access code that came with your textbook (if you purchased the bundle) or that you purchased separately from the bookstore.
 - Buy access using a credit card or PayPal account.
 - If available, get 14 days temporary access. (The link is near the bottom of the screen.)
7. From the confirmation page, select Go To My Courses.
8. On the My Courses page, select the course tile [Ayers Math 117 On Demand beginning June 2106](#) to start your work.

To sign in later:

1. Go to www.MyMathLab.com.
2. Select Sign In.
3. Enter your Pearson account username and password, and Sign In.
4. Select the course tile [Ayers Math 117 On Demand beginning June 2106](#) to start your work.

To upgrade temporary access to full access:

1. Go to www.MyMathLab.com and select Sign In.
2. Enter your Pearson account username and password, and Sign In.
3. Select Upgrade access from the course tile [Ayers Math 117 On Demand beginning June 2106](#).
4. Enter an access code or purchase access with a credit card or PayPal account.

MyMathLab Tips

General Navigation

- The timeline at the top of the homepage will help keep you on track with online homework. It shows when things were assigned and when they are due. It also indicates when announcements have been posted.
- To find lecture outlines and other materials that you should access and/or print prior to class meetings, click on the "Course Documents" link on the left-hand side of the course page.
- Homework can be found via the "Homework" link.
- The online version of the textbook is available via the "Multimedia Library" link.
- Anything involving the "Study Plan" is optional.

Completing Assignments

- Always start assignments on the day they are assigned! The due date is not the same thing as the do date!
- All online homework assignments will be posted under the "Homework" link.
- The textbook has a section of sample tests and quizzes under the "Quizzes & Tests" link. I did not create these, and they are completely optional. The quizzes I assign will be in a separate section under the "Quizzes and Tests" link.
- Some homework problems allow for an infinite number of attempts. Please note that just because you click the "Final Check" button for a problem, that does not always mean it is your last attempt; it might mean that it is your last attempt for that version of the problem. If a "Similar Exercise" button appears, that means you are still allowed to attempt that problem again!
- You can print homework assignments by selecting the Print link in the "Question Help" pulldown in the problem window. You will be given the option of printing either the active question only or the entire assignment.
- I strongly recommend that you write out any work you do while completing homework assignments. Since your quizzes/exams will be mostly paper-and-pencil, it is a good habit to establish while doing the homework. Also, this allows for easy review of your work when you are studying for exams.
- After the due date for an assignment has passed, you can no longer view it through the "Homework" link. Instead, you will need to go to the "Gradebook" link. From there, you will see a Review link for each of the graded assignments. Clicking on this link will allow you to see a list of the assignment questions, as well as whether you received full credit (indicated by a green check), no credit (indicated by a red x), or partial credit (indicated by both a check and x) for each question that you attempted.

Getting Help With Assignments

- Each homework problem will have a variety of links in the "Question Help" pulldown menu. Some will allow you to view an "Animation" or "Video" about the topic at hand. The "Textbook" link will take you to the section of the ebook that covers the material pertaining to the specific problem. WORD OF WARNING: Becoming dependent on the "Help Me Solve This" and "View an Example" links will lead you into a false sense of security. If you have to use those buttons on every problem, you are not really learning how to do it. You will have wonderful homework grades and then you will take a quiz or exam and your world will come crashing down, because there are no help buttons.
- The "Ask My Instructor" link allows you to email Ms. Ayers with a link to your exact problem (problem specifics sometimes vary from student to student). Clicking the "Ask My Instructor" link and just saying "I don't know how to do this" will not be acceptable. You need to attempt to explain what you tried and where you are having an issue.
- Please be aware that if you send Ms. Ayers an email with very little time left before the assignment is due, there is a good chance you will not get a reply before the assignment closes. Don't wait until the last minute to do your homework!