

Syllabus for MATH 117-D01

Last updated 7/6/18. I reserve the right to update and make changes to the syllabus. Pay attention to the last update date.

Instructor: Rich Schugart

Instructor's Name: I have no problem with students calling me by my first name, Rich. However, most students are more comfortable with calling me Mr. Schugart or Dr. Schugart. Some students prefer the informality of calling somebody by their first name, while others prefer the formality of Mr. Schugart or Dr. Schugart.

Course: MATH 117: Trigonometry (3 hours)

Course Description: This MATH 117 class satisfies the Quantitative Reasoning portion of the Colonnade Plan. Topics in MATH 117 include 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.

MATH 117 specifically meets the five learning objectives as detailed below:

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 problems to be solved.
5. Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

Prerequisites:

1. Four years of high school mathematics, including Algebra I and II and Geometry, and satisfactory Math ACT score of 22 or above and math placement exam score of 18 or above.

OR

2. MATH 116 with a grade of C or better.

Class: MATH 117-D01 MTWRF 10:30 A.M. – 12:10 P.M. in COHH 1102

Instructor's Office: COHH 4117

Office Hours for Instructor: by appointment

Phone Number: 745-2947

E-mail address: richard.schugart@wku.edu (best way to get a hold of me)

Textbook: Lial, Hornsby, Schneider, Daniels. Trigonometry (**11th ed.**)

Chapters covered:

Chapter 1: Trigonometric Functions

Chapter 2: Acute Angles and Right Triangles

Chapter 3: Radian Measure and the Unit Circle

Chapter 4: Graphs of the Circular Functions

Chapter 5: Trigonometric Identities

Chapter 6: Inverse Circular Functions and Trigonometric Equations

Chapter 7: Applications of Trigonometry and Vectors

Chapter 8: Complex Numbers, Polar Equations, and Parametric Equations

Grading:

MyMathLab – 25%

Quizzes – 10%

Test 1 – 20%

Test 2 – 20%

Final – 25%

Letter Grades:

A 90 – 100

B 80 – 89

C 70 – 79

D 60 – 69

F Below 60

Blackboard: I will use Blackboard to post grades, make announcements, post suggested problems and homework, post handouts, and whatever else seems appropriate.

News and Notes from around the Math 117 League: These are the announcements I make at the beginning of each class. I may make some of these announcements on Blackboard.

First and Ten: During the first ten minutes of class, I will answer any questions you might have. It could be homework questions or something you did not understand from the previous class. You may put the question in written form on the front table before class.

Calculators: A graphing calculator (TI-83 Plus or TI-84 Plus or Silver Edition), except the TI-92 or TI-89 or equivalent, is recommended for the class. However, I reserve the right to give quizzes and tests in which calculators are not allowed.

Suggested Problems: The suggested problems will be posted on Blackboard after each class. These are the problems that will be assigned at the end of each class relating to that day's material. While you do not have to turn these problems in, it is suggested that you look at and work through some of these problems, if needed. These problems will, in part, be the basis for questions on MyMathLab, quizzes, and tests. Also, I am willing to answer some homework questions at the beginning of class. If you have a homework question that you would like me to go over at the beginning of class, please write the question number or problem on the board.

MyMathLab: Homework will be assigned daily using MyMathLab. In general, you will be given 1-2 days to complete an assignment. Homework may be submitted late. However, there will be a 25% per day penalty on all questions retried after the due date. Organizing and keeping the paper work you used will be beneficial in preparing for exams. There is no partial credit. Access to MyMathLab is gained through clicking on MyLab Math and then on one of the variety of links. However, the first time you click, it will launch the user agreement. Just click accept.

Supplemental Problems: Before most class periods, I will post supplemental problems. These problems can provide examples of test questions. You should copy the problem down. I am happy to go over any of the problems (even from different days) after class.

Quizzes: There will be two quizzes during the semester. The first quiz is scheduled for Friday, July 13. Material for quiz 1 is anything covered from Monday, July 9 – Wednesday, July 11. The second quiz is scheduled for Friday, July 27. Material for quiz 2 is anything covered from Monday, July 23 – Wednesday, July 25. The quizzes will be given at the beginning of the class period. No make-ups will be given.

Review: I will spend at least part of the class periods on Thursday, July 19; Thursday, August 2; and Wednesday, August 8 reviewing for the tests and final. I will not review for the quizzes.

Tests: Test 1 is scheduled for Friday, July 13. Material for Test 1 will be anything covered from Monday, July 9 – Wednesday, July 18. Test 2 is scheduled for Friday, August 3. Material for Test 2 will be anything covered from Wednesday, July 18 – Wednesday, August 1. You will have the entire period to work on the test.

Final: The final is scheduled for Friday, August 9 from 1:00 – 3:00 P.M. in COHH 3117. The final is cumulative.

Math Lab: Tutors are available to assist you in the Math Lab (COHH 2124) from 8:30 A.M. – 12:30 P.M. and 1:30 P.M. – 3:00 P.M. Monday and Wednesday, from 9:30 A.M. – 12:30 P.M. and 1:30 P.M. – 4:00 P.M. Tuesday and Thursday, and 8:00 A.M. - noon on Friday.

Last Day to Withdraw: The last day to withdraw from the class with a W is July 24.

Instructor absences: The instructor may miss classes during the semester. If class is not canceled, then there will be a substitute on days that the class is not held. I expect the class to be on its best behavior during those days. If I find out otherwise, you can expect the difficulty level of the subsequent test to be significantly harder.

Title IX/Discrimination & Harrassment: Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and Discrimination and Harassment Policy (#0.2040) at https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf. Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121. Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center at 270-745-3159.

ADA Accommodations: In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Disclaimer: At any point during the semester, I reserve the right to change the policies outlined in this syllabus. The students will be notified of the changes both in class and via e-mail.