

GRAYSON COLLEGE

Course Syllabus

Course Information

Math 1316-A48 Trigonometry, SPRING 2017, Face-to-Face course, Class meets approximately 3 hours per week, 8:35-9:40. Additional learning tools are located in the Math Hub or at WebAssign.Com.

Professor Contact Information

Professor: Joleen Yeager

Office: SA-115

Phone: 904-415-2537

E-Mail: yeagerj@grayson.edu

Office Hours: MW 10:30AM-11:30AM and 3:00PM-4:00PM, or By appointment

The easiest way to contact me will be through the message link in CANVAS. If you choose to contact me through yeagerj@grayson.edu, please tell me your name and the class in which you are enrolled in the subject line of your email message.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

This course is designed for students who have successfully completed two years of high-school algebra or Math 1314.

Course Description

Topics include trigonometric functions, logarithms, radian measure, solutions of triangles, trigonometric identities and equations, inverse trigonometric functions, vectors and complex numbers.

Student Learning Outcomes

Upon successful completion of this course, students will:

1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
 2. Graph trigonometric functions and their transformations.
 3. Prove trigonometric identities.
 4. Solve trigonometric equations.
 5. Solve right and oblique triangles.
 6. Use the concepts of trigonometry to solve applications.
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Required Textbooks and Materials

McKeague, Turner, Trigonometry. 8th ed. Cengage Publishing, 2015, ISBN-978-1-305-65222-4

Suggested Course Materials

You must have a scientific calculator for this course. You will **NOT** be allowed to use your cell phone, iPod, TI-NSPIRE, or any other graphing calculator or device that can be used for any purpose other than as a calculator.

Required Assignments & Academic Calendar

To enroll in your labs and access your online textbook, go to <https://webassign.com/> and use the following information. Be prepared to pay with a credit card when you enroll, or after the trial period.

Instructor	Section	Class Key
Joleen Yeager	MATH1316, Section A48	graysoncounty 7827 0864

Table 1 Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	Jan 16	Introduction, 1.1, 1.2
2	Jan 23	1.3, 1.4, 1.5
3	Jan 30	2.1, 2.2, 2.3
4	Feb 6	2.4, 3.1, 3.2 Lab Check #1
5	Feb 13	3.3, 3.4, 3.5
6	Feb 20	Review, TEST #1 (Friday, Feb 24th)
7	Feb 27	4.1,4.2, 4.3,
8	Mar 6	4.4, 4.5, 4.6 Lab Check #2
*****	Mar 13-17	*****SPRING BREAK *****
9	Mar 20	5.1, 5.2
10	Mar 27	Review, TEST #2 (Friday, Mar 31st)
11	Apr 3	5.3, 5.4
12	Apr 10	6.1, 6.2, 6.3, Lab Check #3
13	Apr 17	7.1, 7.2

Week	Date	Topics, Readings, Assignments, Deadlines
14	Apr 24	Review, TEST #3 (Friday, April 28th) Lab Check #4
15	May 1	Review for Final Exam
	May 8th	Final Exam, (Wednesday MAY 10th)

This schedule is tentative and may be adjusted during the semester as needed. You will be given notice of the date of all exams one week before each exam. The Final Exam is comprehensive and will be administered on **Wednesday, May 10th.**

In case of inclement weather, emergency closings, or other unforeseen disruptions to scheduled classes, students should log onto their CANVAS accounts for directions on where or how to continue their coursework.

Methods of Evaluation

1. Three major exams
2. Twenty Lab assignments (online)
3. Six Quizzes (online)
4. Comprehensive final exam

Grading Policy

Categories	Percentage
Tests (including Final Exam)	80%
Quizzes	5%
Labs	15%

I will replace your lowest regular exam grade with your final exam grade if it is higher. If you are absent on the day of an exam, you will receive a zero for the exam and the missed exam grade will be the grade that is replaced by your final exam. Subsequent missed exams will receive a grade of zero. If the comprehensive final is your lowest grade, no exam grade will be replaced. Grades will be posted in CANVAS.

Online Labs

This course requires the completion of **twenty (20)** laboratory assignments designed to enhance your understanding of the material presented in class. You have two options for completing these lab assignments.

Lab assignments will be completed online via the WebAssign online lab assignments. You must register on the WebAssign web page using the registration code **graysoncounty 7827 0864**. You will earn one lab credit for each assignment you complete with a grade of 80% or better. **Please be aware that technical problems do sometimes occur. If Connect Math's website is unavailable, this does not excuse you from completing the assignment by the deadline.** Neither your instructor nor Grayson College may be held responsible for technical difficulties you may experience during the course. Complete your assignments in a timely manner to avoid last minute complications. The last day to complete an assignment is **May 7th** at 11:59PM.

You will have four Lab Checks throughout the semester in order to help you in completing the lab assignments in a timely manner.

- **Lab Check 1** – Students must have completed at least 5 lab credits by the end of Week 4.
- **Lab Check 2** – Students must have completed at least 10 lab credits by the end of Week 7. Any previous labs will count towards this total.
- **Lab Check 3** – Students must have completed at least 15 lab credits by the end of Week 10. Any previous labs will count towards this total.
- **Lab Check 4** – Students must have completed at least 20 lab credits by the end of Week 15. Any previous labs will count towards this total.

Your letter grade for the semester will be earned according to the following scale.

Average	Course Letter Grade
89.5-100	A
79.5-89.5	B
69.5-79.5	C
59.5-69.5	D
59.5 or below	F

Grading Rubric for math problems:

The following table illustrates the way in which points will be deducted for errors made on assignments and exams.

Percentage of total point value to be deducted	Description of error(s)
0% - 30%	Minor Error <ul style="list-style-type: none"> • Correct mathematical notation was not used. • The sequence of steps was not written in a logical and organized manner. • Variables were not identified. • Units were not designated. • The method of solution is correct, but there is a sign, arithmetic, copying, or similar minor error in the work. • Correct grammar was not used when a verbal response was required.
30% - 70%	Significant Error <ul style="list-style-type: none"> • The method could have worked; a correct start was made, but a substantial error or errors led to the wrong conclusion. • Poor notation, organization, or handwriting made it difficult to follow and understand for the reader. • A correct method was started, but not completed.
70% - 100%	Major Error <ul style="list-style-type: none"> • Instructions were not followed. • Method of solution was incorrect. • Problem was left blank.

Methods of Instruction

- Lecture
 - Review Q&A
 - Online Labs and Quizzes
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Course & Instructor Policies

Tests

You will **NOT** be allowed to use your cell phone, iPod, TI-NSPIRE (any graphing calculator), or any other device that can be used for any purpose other than as a calculator on a test.

Generally, Make-up tests will **not** be given. If you are absent on the day of an exam, the missing grade will be the “lowest” exam grade and will be replaced by the Final Exam grade. I will give a make up test in an EXTREME emergency situation (and I get to decide what constitutes an EXTREME EMERGENCY). They will be administered only in the Testing Center on campus and must be completed BEFORE the next class meeting. Check the Testing Center for their schedule and policies regarding make-up exams

You will not be allowed to continue a test if you leave the classroom during an exam, unless there is an EXTREME EMERGENCY situation (and I get to decide what constitutes an EXTREME EMERGENCY).

There will be zero tolerance for cell phones during exams.

Cramming for tests, that is, doing all of your test preparation in one day or in extreme cases, one hour, does not end well for most students. Math needs to be absorbed in smaller doses. It is best to spend 30 minutes to one hour every day doing homework. In that way, your brain has the chance to make long-term connections, which will be needed for the comprehensive final exam.

Any student caught cheating on an exam, (this includes assisting another student), will receive a grade of zero for that exam.

Math is a cumulative subject that requires frequent practice in order to develop your skills. If one topic is confusing then the next topic is likely to be more confusing. To avoid this, do not procrastinate on working your assignments. Allow yourself the opportunity to work through unexpected difficulties in understanding the material. The general rule of thumb is to spend two hours studying for every hour spent in class. This translates to six hours of study per week. Your proficiency with math and your success in this class will depend on active practice.

I do not give any “extra-credit” work Ever!

Class Attendance

Regular class attendance and timely completion of homework assignments are excellent predictors of success in most classes.

Academic success is closely associated with regular classroom attendance and course participation. All successful students, whether on campus or online, are expected to be highly self-motivated. All students are required to participate in courses regularly and are obliged to participate in class activities and complete and submit assignments following their professors' instructions. Students taking courses during compressed semester time frames such as mini-semester, summer sessions, and mid-semester should plan to spend significantly more time per week on the course. Responsibility for work missed because of illness or school business is placed upon the student. **More than two (2) absences are considered to be excessive.** In addition, students' eligibility to receive financial aid or live in a College dormitory can be affected by withdrawal from courses. When withdrawal occurs, any tuition refund would be made in accordance with state regulations.

Student Conduct & Discipline

Students are expected and required to maintain classroom decorum that includes respect for other students and the instructor. Any student not following this rule will be warned in private and if there is no change in the behavior, the student will be asked to leave the class. Students are expected to have prompt and regular attendance, and an attitude that seeks to take full advantage of the educational opportunity.

Any behavior that disrupts the learning environment will not be tolerated. Disruptive behavior includes but is not limited to talking while another student or the professor is speaking. Cell phones should be turned off during class, this includes texting. If you truly have an emergency situation, put the phone in silent or vibrate mode and leave the room to answer if you must.

Regular and punctual attendance is appreciated. If you must be late, please enter as quietly as possible. If you must be absent, it is your responsibility to read the text and make up missed assignments.

Important Dates:

January 17	Classes begin
January 17 – 20	Schedule Changes
March 13 – 17	SPRING BREAK (NO CLASSES)
March 24	Professional Development Day (NO CLASSES)
April 18	Last day to drop a class
May 8 – 11	Final Exams

The final exam for this class will be on **Wednesday, May 10th.**

Grayson College is not responsible for illness/injury that occurs during the normal course of classroom/lab/clinical experiences.

These descriptions and timelines are subject to change at the discretion of the Professor.

Grayson College campus-wide student policies may be found in each CANVAS course shell under the menu item "Student Services".

Suggested Homework Assignments

Trigonometry, 8th edition,

By McKeague, Turner

Section	Exercises, odd-numbered
1.1	9-65
1.2	17-20(all), 31-43, 61-75, 77-83
1.3	5-13, 17, 19, 23-29, 43-49, 51-71
1.4	13-51
1.5	3-29, 41-51, 65-95
2.1	5-19, 25-39, 53-63
2.2	33-51, 55-65, 73, 75, 81-85
2.3	9-35, 41, 43, 49-53, 58, 59, 60, 65, 67
2.4	5-23, 27-35, 39-43
3.1	5-9, 13-27, 33-45, 53-79
3.2	5-29, 45-51, 57-67, 81-85, 89-91, 95
3.3	7-31, 49-53, 63-67, 71-93
3.4	5-19, 23, 31-55
3.5	5-19, 23-43, 49, 51, 55, 57, 63
4.1	13-18(all), 25-35, 51-55
4.2	13-17, 27-51, 61-65
4.3	5-15, 17-49, 53-61
4.4	7, 9, 15, 17, 21-27, 43, 45, 49, 51, 55-61
4.7	17-47, 55-79, 83-89
5.1	15-67(every other odd), 69-71
5.2	17-33, 51-65
5.3	7-21, 43-55
5.4	17-33, 45-53
6.1	5-37, 45-51
6.2	5-27, 49
7.1	5-23, 29-35
7.2	11-25, 37-45

Revised 1/13/17