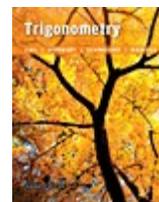


TRIGONOMETRY (Online)

COURSE DESCRIPTION: Math 4A is a trigonometry class that involves angles, trigonometric and inverse trigonometric functions, right and oblique triangles, graphs, identities, trigonometric equations, vectors, polar coordinates, DeMoivre's Theorem, and applications.

TEXT: Lial, Hornsby, Schneider and Daniels, *Trigonometry*, 10th Edition



Note: *You do not need to buy the book, but you **must** buy the Access Code.*

MATERIALS NEEDED:

- ❑ Scientific Calculator (TI84 **highly recommended**. No TI-89 or cellphones will be allowed during onsite exams)
Note: *The library has TI84 calculators available to be checked out for the entire semester.*
- ❑ **Access Code to My Math Lab (Pearson)**

Time Requirements

Trigonometry is a four-unit course. This means that a student taking this class face-to-face will spend four hours per week in class, learning the material. As an online student you will not be physically attending class, but you will likely also be spending approximately four hours per week learning the material before you attempt the homework. You can also expect to spend approximately **two hours** working on homework for every one hour you spend learning the material. Therefore, a student in this class can expect to spend approximately **12 hours** per week on this course. This number may be lower or higher for you, depending on your math preparedness.

I definitely **do not** recommend an online course for students

- who do not have strong study skills and discipline
- who do not have solid math skills in the prerequisite courses
- who have not taken math for a long time
- who have received a grade lower than a B in a previous math class.

HOMEWORK: Homework assignments are completed online and the assignments can be found at the *My Math Lab* website, www.pearsonmylabandmastering.com. *Remember: The assignments are online, you work the problems out on paper but you submit your answers online at the My Math Lab site.* You may work ahead if you like. ***It is important to stay current to be successful in the course!*** Each assignment has a due date. Late homework will lose **25%** of the points possible **for every day it is late**. Online homework will account for 15% of your grade.

ONLINE TESTS: There will be six to seven online tests given, usually (but not always!) covering one chapter of material in each exam. Tests will be available three days prior to the deadline. After the deadline the test will no longer be available. You have two attempts to take each online exam, but the score recorded will be the **average** of the two scores. If you choose not to take the exam a second time, then your original score is the one recorded. Failure to take an exam will result in a grade of zero for that exam. Each online test is worth 100 points and Online Tests will account for 15% of your grade.

*Note: Once you begin the exam you will have 90 minutes to complete it. After the 90 minutes have expired, the exam will no longer be available to you. It is not possible to stop the exam and return to it later! If you attempt to do this you will be locked out of the program and will have to contact me for access to the course. Be sure to plan your exam time accordingly; if you start the exam with less than 90 minutes before the exam deadline, the program will shut you out at the deadline, **not 90 minutes after the time you started!***

Very important note! If, while taking an exam, you attempt to navigate to another website or another part of the Pearson website the system will shut down the test, submit whatever score you had at that point and lock you out of both the exam and the course. **DO NOT** navigate away from the webpage the test is on or try to open another browser!

ONSITE EXAMS: There will be three Onsite Exams which will be given at the Reedley College Campus. Each Onsite Exam will be worth 100 points and will cover approximately two chapters of material. **Students will need to present a valid picture I.D. in order to take all onsite exams.**

FINAL EXAM: A two hour comprehensive final exam worth 100 points will be given at the end of the semester during finals week on the Reedley College campus.

Attendance

- Students who do not sign up at www.pearsonmylabandmastering.com and complete the first three assignments (Introduction, 1.1 and 1.2) by **Sunday, August 20, 2017** will be dropped. My Math Lab will allow you to enroll on their site with a *temporary access* without buying the access code.
- Any student who enrolls with a *temporary access code* will be **required** to have purchased the access code and be permanently enrolled in the My Math Lab course by **Sunday, August 27, 2017**. Failure to do so will result in a **drop from the course!**
- Since this is an online class, your attendance is based on your working on assignments at www.pearsonmylabandmastering.com on a regular basis and staying up to date on assignments. Failure to complete assignments and online exams in a timely manner may result in your being dropped from the course for nonattendance.

- Checking your email daily is also a part of your attendance. Students are responsible for all information sent to them in emails or posted on the Canvas or My Math lab sites. **Not checking your email is not an excuse for anything!**
- It is your responsibility to make sure you have a good internet connection and that the computer you are using is able to handle the necessary software for the course. Technology problems are not an excuse to get extensions, second chances or exceptions for any assignment, **especially on tests**. If your computer 'freezes' during an online exam, you will not be given access to it again and you will receive a grade of zero for that attempt. Remember, you have two attempts for each exam.
- Students are expected to attend the on campus meetings on the scheduled date, arrive on time, and bring a valid picture ID. Students who are absent for any onsite exam will receive a zero for that exam. *Arriving late for any onsite exam means you will have **less** time to complete that day's exam. Please do not expect extended time to account for your tardiness.*

Communication Guidelines

All communication will be via email. Please follow the following guidelines in all email communication:

- Email language should be written with full sentences and be professional.
- Sign your **first and last name** at the end of every email
- Type **Math 4A Online** in the subject bar of the email
- If you use more than one email address, then it is your responsibility to check **all** of your email accounts on a daily basis. When I send an email through Canvas it will go to your Reedley College email inbox, while any messages sent through My Math Lab will go to whichever email you entered when you registered for your account on the Pearson site.

Personal and Technology Emergencies

I am well aware that sometimes emergencies arise both in your personal life and with the technology that you may be using. To account for these unexpected events, I have made the following allowances:

- The lowest two **homework grades** will be dropped.
- The lowest **online exam grade** will be dropped. *Remember you have two attempts for each online exam but the average of the two exams will be the recorded score.*
- Whatever score you earn on the final exam will be recorded as your final exam score and will replace your lowest of the three previous onsite exam scores (if the final is higher than that low onsite exam score).
- Missing the final exam will result in a score of 0.
- There are no makeups for **any** missed online exams, onsite exams or the final exam.

GRADING:

- **Homework** will represent 15% of the final course grade.
- **Online Exams** will represent 15% of the final course grade.
- The **midterm exams and the final exam** will represent 70% of the final course grade.

Example: If your homework average is 85, the average of your online exams is 75 and the average of your three midterm exams and the final is 78, then you would compute your grade as follows:

$$(.15)(85) + (.15)(75) + (.70)(78) = 12.75 + 11.25 + 54.6 = 78.6$$

The **grading scale** for this course will be:

| | | | | |
|-------------------------|-------------------------|-------------------------|--------------------------|--------------------|
| 89.5% - 100% = A | 79.5% - 89.4%= B | 66.5% - 79.4%= C | 54.5% - 66.4% = D | 0 - 54.4%=F |
|-------------------------|-------------------------|-------------------------|--------------------------|--------------------|

Academic Dishonesty: Reedley College rules on plagiarism will be strictly enforced. Academic dishonesty in any form is a very serious offense and will incur serious consequences, including but not limited to receiving a grade of F in the course. **The student receiving the grade on their transcript needs to be the person doing the work at ALL times in this class.** If not, the student will receive an automatic F in the course, and suffer the utmost consequences of plagiarism as set forth by the college’s academic regulations.

NOTE: If you have a verified need for an academic accommodation or materials in alternate media per the Americans with Disabilities Act or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Important Deadlines!!

| | |
|---------------------------|---|
| August 20, 2017 | Deadline to be enrolled and have first three assignments completed |
| August 27, 2017 | Deadline to be PERMANENTLY enrolled in My Math Lab |
| September 12, 2017 | Onsite Exam #1 – Reedley College 6:00 – 7:50 p.m., AG - 1 |
| October 10, 2017 | Onsite Exam #2 – Reedley College 6:00 – 7:50 p.m., AG - 1 |
| October 13, 2017 | Last Day to Drop |
| November 14, 2017 | Onsite Exam #3 – Reedley College 6:00 – 7:50 p.m., AG - 1 |
| December 12, 2017 | Onsite Final Exam – Reedley College 6:00 – 7:50 p.m., AG - 1 |

Academic Calendar:

- August 25, 2017 (F) Last day to add a full-term class
- September 4, 2017 (M) – Labor Day Holiday (no classes)
- September 8, 2017 (F) Last day to change a Fall 2017 class to a Pass/No-Pass grading basis
- October 13, 2017 (F) - Last day to drop a Fall 2016 full-term class
- November 10, 2017 (F) – Veteran’s Day holiday (no classes, campus open)
- November 23-24, 2017 (Th-F) Thanksgiving holiday (no classes held, campus closed)
- December 12, 2017 (T) – Final Exam [6:00 – 7:50 p.m., Reedley College campus, AG - 1]

COURSE OBJECTIVES

Students will be able to:

- apply the trigonometric functions to solve for the parts of a triangle.
- evaluate trigonometric functions of both acute and obtuse angles.
- solve problems involving vectors
- apply the concept of radian measure to circular functions
- apply trigonometric identities to simplify algebraic expressions and solve equations.
- apply the concept of polar coordinates to algebraic operations and graphs.
- apply computing and graphing technology.

COURSE CONTENT OUTLINE

Chapter 1: Trigonometric functions

Chapter 2: Acute Angles and Right Triangles

Chapter 3: Radian Measure and Circular Functions

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 (as time permits)