MAC1147: Pre-Calculus Algebra/Trigonometry

Welcome to the course

In this course we will develop your math skills that will help you be successful in your subsequent college level math courses. We will use Canvas and the MyMathlab online program to complete our homework, quizzes, and tests.

We will not use the textbook. Do not purchase the textbook (unless you need a hard copy of the textbook). You **must** purchase the MyMathlab Access code to enable you to complete your online assignments. You may purchase MyMathlab from the bookstore or during the MyMathLab registration process.

To enroll in the MyMathLab course, go to Modules and start with Welcome module to begin the course.

The course ID is not required to register for MyMathLab since you must register through Canvas!

Syllabus

I. Course Information

Course Title: Pre-Calculus Algebra/Trigonometry
Course Number: MAC1147 Section 02
Instructor Name: Yates
Credit Hours: 5
Course Location: Building 7 Room 105
Office Location: Building 2 Room 207

Telephone No.: 237 2111 extension 1389
Email: yatese@cf.edu

The best way to reach me is by email. If you leave a voicemail, please leave your name and an email address I can respond to. Please allow 24 hours for a response Monday morning through Thursday afternoon and up to 48 hours for a response Thursday evening through Monday morning. Scheduled holidays may extend the response time.

Office Hours

Monday & Wednesday 9:00 - 9:30

Monday & Wednesday 12:00 - 12:30

Monday, Tuesday, Wednesday, & Thursday 12:30 - 1:45

Friday: 8:00 -10:50

Please allow 24 hours for a response Monday morning through Friday afternoon and up to 48 hours for a response Friday evening through Sunday evening. Scheduled holidays may extend the response time.

Extended Emergency Closure

"For emergency campus closings (natural disasters, etc.) call 352-291-4499 or 800-831-9244 or check our [website (Links to an external site.)](#) (CF.edu)."

Prerequisite for the course: MAC1105 or a suitable placement score.

Text Title: Precalculus, graphs and models, a right triangle approach
Author of Text: Bittinger
Edition:6th

ISBN No.:9780135834411

Required Materials: MyMathLab access code for text, Scientific calculator (TI-30XS)

Optional Materials: none

Cell phones

- You will not be using a cell phone in this class.

Calculators

- You may not use a cell phone as a calculator.
- Calculators that can transmit data wirelessly are not allowed.
- Only a scientific calculator is required.
- No Graphing calculators.
- I recommend the TI-30XS

II. Course Description

In this course I will guide you through the mathematical concepts you need to be successful in your next mathematics course. I expect you to complete your assignments in a timely fashion and ask questions when you need help. It is your responsibility to keep track of when assignments are due. It is your responsibility to do the work assigned. I do not give you a grade for this course, I only record the grade that represents the knowledge you have achieved in this course through the work you have done.

This course is designed to provide students with the opportunity to develop the trigonometric and algebraic skills necessary to take calculus.

This course will cover topics such as:

- Polynomial equations
- Rational equations
- Exponential functions
- Logarithmic functions
- Trigonometric functions
- Degrees, Minutes, Seconds
- Radians
- The Unit Circle
- Linear & angular speed
- Graphing trigonometric functions
- Trigonometric Identities
- Proving Trigonometric Identities
- Solving trigonometric equations
- Law of Sines
- Law of Cosines
- Complex numbers and trigonometric form
- Polar Coordinates
- Vectors
- Matrices
- Solving systems of equations
- Partial Fractions
- Conic Sections
- Sequences & Series

III. Student Learning Outcomes/Course Objectives.

Learning Outcomes & How Measured

Quantitative and Analytical Reasoning: The student will understand and apply mathematical and scientific principles and methods.

1. Perform accurate computations using order of operations with and without technology.

How Measured: Quiz, Exams

2. Identify and organize relevant information and complete the solution of an applied problem.

How Measured: Quiz, Exams

3. Interpret and communicate understanding of visual representations of data.

How Measured: Quiz, Exams

4. Demonstrate mathematical number sense and unit sense.
   How Measured: Quiz, Exams

IV. Assessment

Grading scale: Final grades will be based on the overall percentage of the course.

Grade	Percent
A	100% - 90%
B+	89% - 87%
B	86% - 80%
C+	79% - 77%
C	76% - 70%
D	69% - 60%
F	59% - 0%

Assignments	Weights
Exams:	70%
Quizzes:	10%
Homework:	15%
Project	5%
Discussions:	0%
Attendance:	0%

Grading Information:

Exams

- 70% of overall grade
- All exams will be taken during class.
  - You have until the end of class to finish.
  - Extra time will not be given if you start late.
- No Retaking exams!
- The 9th exam counts as a test grade.

Quizzes

- 10% of overall grade
- You will have 3 attempts per online quiz.

Homework

- 15% of overall grade
- Homework is assigned for every section of class
- The student is expected to complete each assignment and if the student encounters difficulties with a problem(s), then the student should ask appropriate questions via email or see the instructor during office hours, or get assistance at the Math Center.
- It is advised that you complete the homework in a timely fashion. I encourage you to finish the homework early so that you have more time to study for the exams.
- I will replace your lowest exam grade with the average homework score for that chapter.
    - (For example, if your lowest exam was chapter 7, I will take the average of the homework scores in chapter 7, and replace that test grade with the average, as long as your average is higher than the exam grade.)
    - I will replace the lowest exam grade at the end of the semester.
    - The homework will be cut off when the exam begins. The homework will not be re-opened.

Projects

- 5% of overall grade
- In this class we will be doing a rocket project.
- You may work by yourself or in teams of 2 or 3.
- The rocket project will use concepts from this course, and apply them to a real world situation.

Attendance

- 0% of overall grade
- Attendance is established by doing assignments in MyMathLab.
    - For Financial aid you must be registered in the course in MyMathLab and have completed one assignment.
- Non-Attendance does not constitute as a withdrawal from the course. It is the student's responsibility to complete the withdrawal forms by the appropriate date.
- If the student is having trouble, it is the students responsibility to get help from the instructor, another student, or tutor. You may contact the instructor through email, or stop by during office hours.

Late work

- Late work will not be accepted.
- All MyMathLab assignments must be turned in by the due date.
- Failure to turn in an assignment on time will result in a score of zero.

Extra Credit

- **No Extra Credit**

Make-up policy:

- **No make-up work will be given** unless there is an emergency or prior approval has been given by the instructor. In such an event, you must notify your professor before the exam or item is due unless the emergency prohibits it and you will be asked to bring proof of the emergency. A make-up exam must be taken within one week of the original exam date unless the emergency prohibits it. While you do not need to disclose personal details, let your professor know as soon as possible if something is preventing you from participating online or completing work.

  - **Three strikes rule for exams**
    - **Strike 1-** I will give one extension for one chapter.
      - You will have one week to complete an extension.
      - Exams must be completed during office hours.
      - An extension will not be given for the chapter 11 exam or the final.
    - **Strike 2 -** The average homework score of the chapter will replace the missed chapter exam.
      - If your missed exam was chapter 7, the average homework score of chapter 7 will replace the test score.
      - If you have not missed an exam, your lowest test score will be replaced by the corresponding average home work score.
      - This does not include the final
    - **Strike 3** - zero on the exam

Course Schedule/Outline

Preparation, Activities and Evaluation	Date Due
Chapter 4 Homework, Quiz & Exam 1	01/24/2022
Chapter 5 Homework, Quiz & Exam 2	02/02/2022
Chapter 6 Homework, Quiz & Exam 3	02/16/2022
Chapter 7 Homework, Quiz & Exam 4	03/02/2022
Chapter 8 Homework, Quiz & Exam 5	03/21/2022
Chapter 9 Homework, Quiz & Exam 6	04/04/2022
Chapter 10Homework, Quiz & Exam 7	04/13/2022
Chapter 11 Homework, Quiz & Exam 8	04/25/2022
Exam 9 (Final Exam)	05/01/2022

All Homework and Quizzes are due by the beginning of the exam!

STATEMENT: The instructor reserves the right to make any changes as needed. Due to unforeseen happenings, it may be necessary for the course assignment schedule to be altered. The instructor will always strive to be fair about any changes.

Student Responsibilities & Course Requirements

1. Students are expected to complete each assignment.
2. Students will complete online homework and quizzes for each chapter.
3. Students will complete 9 exams which will be in class.
4. The 9thexam will be administered the same as all other tests.
5. You should attend the lectures, as they will be the way I teach the course, You may also use MyMathLab, power points, videos, interactive videos, the textbook and other available materials under the course contents. These materials serve as supplemental teaching aids for the course. You may also view instruction videos from other sources such as Kahn Academy. After viewing the material you should do the homework for the chapter and then the quiz.
6. Quiz problems will be similar to the homework problems. You will not have the help buttons available when taking a quiz. You will have three attempts at each quiz. The quiz must be completed before the questions are graded. If you use the second/third attempt you will need to do the entire quiz over, not just one particular problem. The problems will be similar but probably not exactly the same. Only the highest quiz score counts toward the grade. **Only quizzes completed prior to the due date will receive credit.**
7. There will be eight tests and a final exam. **Each test will be administered during class time.**
8. **There will be no retakes.**

Online Tutoring Assistance

You can use the [Smarthinking Online Tutoring](#) tab on the left menu bar to access tutors.

The College of Central Florida tutors are at the top and the subject will have a CF in front of it. Please make sure you utilize our CF tutors.

Log on for SMARTHINKING

Initial username logon is **Your CF ID number and CF (e.g., 99999CF)**

Initial password is **lastname (lowercase)**

Then you will create your own account. The limit for Smarthinking is 5 hours per student. If you desire more time contact Josh Strigle at x-1317 or dlhelp@cf.edu.

Math Websites

[Khanacademy](#) (Links to an external site)

[Quickmath](#) (Links to an external site)

[Purplemath](#) (Links to an external site)