

**Course Number:** MATH 1113  
**Course Title:** Precalculus – Thielemier – Spring 2015

**Hours Credit:** 4 hours

**Prerequisites:** Four years of high school mathematics including algebra and trigonometry OR MATH 1111.

**Courses Description:** This course is designed to prepare students for calculus, physics and related technical subjects. Topics include an intensive study of algebraic and transcendental functions.

**Instructor:** Ms. Carrie Thielemier; MS Mathematics

**Office Hours:**

**Monday**

10:00 – 11:00 (Newnan)  
12:30 – 1:50

**Wednesday**

10:00 – 11:00 (Newnan)  
12:30 – 1:50

**Friday**

10:00 – 12:00  
12:15 – 1:50\*

\*All office hours are open, except for Fridays from 12:15 – 1:50. It is preferred that you schedule an appointment for these office hours. Appointments will be given in 5-10 minute intervals for the student depending on the reason of the visit. If no appointment is scheduled, the time will be open for non-appointments.

\*To schedule an appointment for Friday office hours, 12:15PM – 1:50PM, email [cthielem@westga.edu](mailto:cthielem@westga.edu) to check availability. Please indicate what times you can come in, and what you would like to accomplish during the appointment.

**Email:** [cthielem@westga.edu](mailto:cthielem@westga.edu)

**You are required to purchase for this class:**

1) **Text:** *Precalculus (5th edition)* by Robert Blitzer, Prentice-Hall **OR**  
**MyMathLab** – Access Code

**\*\*DO NOT PURCHASE BOTH.**

2) **Calculator:** Graphing calculators equivalent to the TI 83, 84, 85, and 86 is allowed. TI-89 Graphing Calculators are **not allowed**.

**Learning Outcomes:** Students should be able to demonstrate:

1. An understanding of functions and how to graph functions
2. An understanding of operations on functions including function composition
3. An understanding of polynomial and rational graphs, including intercepts and asymptotes
4. An understanding of how to find the zeros of a polynomial and how to factor polynomials
5. An understanding of inverse functions and how to find them graphically and algebraically
6. An understanding of the properties of exponential and logarithmic equations
7. An understanding of how to solve exponential and logarithmic equations
8. An understanding of how to find the values of the trigonometric functions from right triangles and circles
9. An understanding of how to graph the trigonometric functions
10. An understanding of how to prove trigonometric identities
11. An understanding of how to use the sum, difference, double-angle and half-angle formulas for sine and cosine
12. An understanding of how to solve triangle using the law of sines and law of cosines
13. An understanding of polar coordinates and graphs
14. An understanding of how to analyze and solve applied problems

## **Final Grade Determination**

- 3 Exams: 40% of your overall grade
- Weekly quizzes 30% of your overall grade
- Final Exam 30% of your overall grade
- Homework (optional) 0% of your overall grade

## **Exams**

- You will have three, 100 pt. exams for this class. Your Final Exam will replace your lowest test grade (if the final exam grade is higher than your lowest test grade).
- **\*\*EXAMS CAN NOT BE TAKEN AT A LATER TIME.** Regardless of your reason for missing an exam, no student will be able to take an exam at a later time (even if it is later in the day). This is because your final exam will replace your lowest test grade. If you miss an exam, you will receive a 0% for that test and your final exam grade will replace that 0%. **The final will only replace 1 test score.** Do not miss an exam unless you are sick, emergencies, etc.
- **\*\*An exam may be taken early if you will be out for a school function (proof required) or military orders (proof required).** You **must** contact the instructor a week in advance to schedule an early exam.
- Please allow 2 weeks for exams to be graded.

## **Quizzes**

- You will be given quizzes on a weekly basis, mostly on Fridays. I will drop your 3 lowest quiz grades at the end of the semester for final grade calculation.
- **\*\*QUIZZES CAN NOT BE TAKEN AT A LATER TIME.** Regardless of your reason for missing a quiz, no student will be able to take a quiz at a later time (even if it is later in the day).
- **\*\*A quiz may be taken early if you will be out for a school function (proof required) or military orders (proof required).** You **must** contact the instructor a week in advance to schedule an early exam.
- Please allow 1 week for quizzes to be graded.

## **Final Exam**

- All students are required to take the final exam. You can find the day/time of your final in "The Scoop" on [www.westga.edu](http://www.westga.edu).
- The final will be comprehensive. Use old exams and quizzes as a study guide for your final exam.

**\*Cheating on an exam, quiz, or the final will result in a 0% for that grade, and will be used for grade calculation. A second offense will result in more serious consequences.**

**\*Cheating during an exam/quiz includes, but is not limited to: looking at your notes/book, looking off another student's notes/book/test, using your phone or similar device, hiding test information so that you can look at it during a test, talking during a test.**

## **Homework**

Homework will be assigned for each section. Homework is optional and will not be a part of your final grade. It is highly recommended that you **practice** by doing homework before you attempt a quiz or take a test. Homework should be attempted multiple times so that you **retain** the information taught. **Retention** of the content is one of the biggest obstacles that prevent students from passing the class.

**\*Do your homework.**

**\*Do your homework multiple times (at different times) to help you retain the information.**