

**MATH 1113 - PreCalculus**  
**Hours Credit:** 4 hours  
**Prerequisites:** Math1111 or equivalent

**COURSE INSTRUCTOR**

**Instructor:** Mrs. Carrie Carmack

**Email:** ccarmack@westga.edu

**OFFICE HOURS:** I will be available by appointment before or after class. Please email me if you need to meet with me to discuss student matters.

**REQUIRED COURSE MATERIALS**

- 1) Calculator: scientific or graphing. TI-89, or equivalent, are not permitted.**
- 2) Binder with notebook paper for taking notes.**

**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.

**Learning Outcomes**

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

## COURSE ASSESSMENT

Students' mastery of course learning outcomes will be assessed using the following methods:

1) **Exams:** There will be four 100 point exams given during the semester. A student may take one exam late, but there will be a deduction of 20 points on the exam grade, regardless of the reason for being absent. If a student is taking a late exam, they must take the exam after class during the following class meeting, no exceptions. If a student knows ahead of time they will be absent on test day, they may take the exam early. However, the student must give the instructor a one-week notice.

**The lowest exam grade will be replaced by your final exam grade, if higher.** No student will be able to retake an exam. No student will be able to take an exam later than what has been explained above.

**EXAMS WILL BEGIN AT 2:00PM AND FINISH AT 3:00 PM. IF YOU ARRIVE LATE, YOU WILL NOT BE GIVEN EXTRA TIME. IF YOU TURN IN AN EXAM LATER THAN 3:00 PM, YOU WILL RECEIVE A DEDUCTION OF 20 POINTS.**

2) **Final Exam:** There will be a final exam worth 100 points for the course. The final exam is comprehensive. You will use in-class exams as a study guide for your final exam.

3) **Class Participation:** There will be 50 points of class participation during the semester. Class participation will be random, points will not be evenly distributed, and the assignment must be done during class when it is handed out. Class participation assignments cannot be done at any other time. A student cannot make up class participation and the assignment cannot be done earlier, or later, in the day.

## OTHER COURSE INFORMATION

- **All grades will be placed in CourseDen.**
- **Please check your email during the semester. If I need to make an announcement outside of class, I will send out an email.**
- **There is no attendance policy, but students are expected to come to class, take notes, and attempt to understand the content. If you are absent, contact your instructor to see what content was covered and any announcements made during class. It is a student's responsibility to find out what was missed. Students will not be able to obtain a copy of the instructor's notes. If you miss class, you must get notes from another student. Also, if you miss class and therefore miss a class participation grade, you will not get an opportunity to make that up.**
- **You will be given handouts in class for you to practice on during your own time. You are expected to work on the handouts as homework before the**

next class period. Failure to do so will most likely result in very poor exam grades. Exam questions will come from the handouts given in class.

#### ASSESSMENT GRADING

<b>Exams</b>	<b>400 pts</b>
<b>Final Exam:</b>	<b>100 pts</b>
<b>Class Participation:</b>	<b><u>50 pts</u></b>
<b>Total:</b>	<b>550 pts.</b>

**Grade Turnaround:** Grades will be posted within 1 week of the assignment.

#### Grading Scale:

90% - 100%:	A
80% - 89%:	B
70% - 79%:	C
60% - 69%:	D
<60%:	F

#### COURSE POLICIES AND INFORMATION

##### University Policies and Academic Support

Please carefully review the following Common Language for all university course syllabi at the link:

[http://www.westga.edu/assetsDept/vpaa/Common\\_Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf)

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation at [http://www.westga.edu/assetsDept/vpaa/Common\\_Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf).

##### Academic Honesty

**ALL FORMS OF ACADEMIC DISHONESTY WILL BE REPORTED TO THE INSTITUTION.**

**If you are caught cheating on any assignment, you will receive a 0% for the first offense AND your final percentage grade will be deducted by 15 percentage points. If you receive a 0% on an exam, it will NOT be dropped for final grade calculation.**

**For the 2<sup>nd</sup> offence, students will receive an “F” for the course, no exceptions. Cheating includes, but is not limited to: copying another student’s work, or allowing a student to copy yours, using any outside device (excluding calculators) on any exam, using notes during exams, passing notes during exams.**

Definitions of academic dishonesty are defined in the student handbook:  
[www.westga.edu/handbook/](http://www.westga.edu/handbook/)

### **Disabilities Act/Accessibility for the Course**

If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content.

Please contact UWG Accessibility Services for more information.

### **Student Conduct**

Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom. The following is also mandatory:

- **Students are expected to come to class to take notes and learn the material. Do not come to class if you intend to be disruptive. If you are exhibiting behavior during class that is disruptive or disrespectful, you will be asked to leave.**
- **Having your cell phones out during lecture is disruptive and disrespectful. Put them away while you are in class. A phone should not be a replacement for your calculator. If you need to have your phone out during class for any reason, let your instructor know before class and sit next to the door in case you need to step out.**
- **If you are late to class, please try to be quiet when entering and sit next to the door. Do not make a habit of being late, it is disruptive and you may be reported to the institution as such.**

### **IMPORTANT NOTE**

I reserve the right to modify this syllabus at any time during the course of the term, particularly regarding the course schedule. If such a modification is substantial, I will reissue a revised syllabus and announce the change in class.