MATH 1113 Section 02 – Precalculus

Prerequisites: A grade of C or better in MATH 1111 or an SAT Math score of at least 500 or an ACT Math score of at least 20

Math Department recommends a minimum ALEKS Placement score of 61 to be successful in the class.

COURSE INSTRUCTOR
Instructor: Mr. Kyle Carter
Office: Boyd 104 - D
Email: kylec@westga.edu
Phone: 678-839-5134

OFFICE HOURS:
Boyd 104 – D: Monday – Thursday: 11:30 – 12:00 (lunch) or by appointment.

REQUIRED COURSE MATERIALS
TEXT AND OTHER REQUIRED COURSE MATERIALS.

TEXT: College Algebra and Trigonometry, by Julie Miller and Donna Gerken (McGraw Hill Education). An eBook version of the text is included with your ALEKS subscription.

ALEKS: All students in MATH 1113 are required to have an ALEKS Account. Go to www.aleks.com to purchase an account. The course code for this section is RP3GM-9XLLV

CALCULATOR: A graphing calculator (TI-84 or equivalent) is required for this course.

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
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 types of functions.
4. An understanding of rational functions and their graphs, including intercepts and asymptotes
5. An understanding of how to find the zeros of a polynomial and how to factor polynomials
6. An understanding of inverse functions and how to find them graphically and algebraically
7. An understanding of the properties of exponential and logarithmic equations
8. An understanding of how to solve exponential and logarithmic equations
9. An understanding of how to solve systems of equations
10. An understanding of how to find the values of the trigonometric functions from right triangles and circles
11. An understanding of how to graph the trigonometric functions
12. An understanding of how to prove trigonometric identities
13. An understanding of how to use the sum, difference, double-angle and half-angle formulas for sine and cosine
14. An understanding of how to solve triangle using the law of sines and law of cosines
15. An understanding of polar coordinates and graphs
16. 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:

**Class Participation/ALEKS Module Work:** This portion of your grade will be assessed by your participation in class and your completion of Modules in ALEKS. We will have at least one Module to do each day. This work will be completed during class time and can be worked on at home if additional time is needed.

**Proctored Midterm in ALEKS:** On Friday 5/19, we will have our Midterm that will be taken in class. It will cover Modules 1 – 6.

**Proctored Final Exam in ALEKS:** On Tuesday 5/30, we will have our Final that will be taken in class. It will cover all of the Modules we get to.

GRADE BREAKDOWN

**Class Participation/ALEKS Module Work:** 60%
**Proctored Midterm in ALEKS:** 15%
**Proctored Final Exam in ALEKS:** 25%

ASSESSMENT GRADING:

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

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.

Academic Honesty

While some parts of this course may be completed in groups (such as the Homeworks), the Quizzes and Online Tests are meant to be completed alone, without the help of any other person. Any serious form of academic dishonesty will be reported to the University. Definitions of academic dishonesty are defined in the student handbook: 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.