MATH 1113 Section N01 – Precalculus

Hours Credit: 4 hours

Prerequisites: A grade of C or better in MATH 1111

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

OFFICE HOURS:
Boyd 104 – D: Monday 11:45 am – 1:15 pm
Wednesday 11:45 am – 1:15 pm
Friday 11:00 am - 12:00 pm

Online in CourseDen: Tuesday 11:00 am - 12:00 pm
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 Section N01 are required to have an ALEKS Account. Go to www.aleks.com to purchase an account. The course code for this section is K4LPY-GHVUC

CALCULATOR: A graphing calculator (TI-83, TI-84 or equivalent) is required for this course.

COURSE 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:

Weekly Check-Ins/Discussions: This portion of your grade will be assessed in the form of Weekly Check-Ins. Every week (other than the first week's check-in which serves as an introduction of yourself to the class), I will post/email a short video updating you on the class, reminding you of current assignments and answering FAQ's. After watching the video, just post in the corresponding weekly check-in if you have further questions. If you have no questions or comments, just create a post and say something like "no questions." This just serves to keep you invested and active in the class, and it is meant to help you. It should only take a couple of minutes to watch the video and post each week, so it is also an easy way to pad your grade.

Homework Completion in ALEKS: This portion of your grade is based on your completion of homework in ALEKS. Each week, you will work through one homework assignment that help you learn the required topics for this course. While you technically don't have to complete these until the end of the semester, I encourage you to complete one per week (I will send out frequent reminders) to stay on track and make the end of the semester smooth.

Quizzes in ALEKS: This portion of your grade will assess your understanding of what you learn each week. You will have one quiz per week (three attempts at each quiz), and they will be completed in ALEKS. Each quiz is made up of questions from the homework, so I would advise doing these at the end of each week to test your learning. Again, the due date for all of the quizzes is technically not until the end of the semester, but I encourage you to do one per week to stay on track.

Online Tests in ALEKS: There will be 4 Online Tests that will be completed in ALEKS. You will have one attempt per Online Test, and they will only be available through a set due date (approximately one per quarter of the semester). The dates are posted in the Calendar in CourseDen, and I will remind you when we approach those due dates.

Proctored Final Exam: There will be one Proctored Final Exam at the end of the semester. This is different than and in addition to the four online exams. I will be offering a couple of different options as to how you can take your Proctored Final Exam. I will reserve a room where you can take the exam as a class like a normal face to face final exam during final's week, and I will open up my office hours the week of finals so that you can take it with me if you have a conflict with the set time. You are free to choose either option without penalty, and we will discuss those options in more detail about halfway through the semester. Also, there is a practice final available in ALEKS that can be taken as many times as you want throughout the semester (the practice final does not count as a grade, so no worries in trying it). The real final will be taken from those questions found on the practice final, so you can use that as a guide throughout the semester to focus your efforts.

GRADE BREAKDOWN
Discussion/Participation: 5%
Homework: 10%
Quizzes: 10%
Online Tests: 50% (12.5% each)
Proctored Final: 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/discussion board.