MATH 1113 - Precalculus

**Hours Credit:** 4 hours

**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:** Nathan Rehfuss
**Email:** nrehfuss@westga.edu
**Office:** 111A Boyd
**Office Hours:**
- Tuesday: 9:30 – 11:30 AM
- Thursday: 9:30 – 11:30 AM
  5:00 – 6:00 PM

**REQUIRED COURSE MATERIALS**

**TEXT:** *College Algebra and Trigonometry, by Julie Miller and Donna Gerken (McGraw Hill Education)*

**ALEKS:** All students in MATH 1113 are required to have an ALEKS Account. Go to [www.aleks.com](http://www.aleks.com) to purchase an account.

The course code for this section is JV466-VXMJF

**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 find the values of the trigonometric functions from right triangles and circles
10. An understanding of how to graph the trigonometric functions
11. An understanding of how to prove trigonometric identities
12. An understanding of how to use the sum, difference, double-angle and half-angle formulas for sine and cosine
13. An understanding of how to solve trig equations
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 SCHEDULE**

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IMPORTANT DATES:

First Day of Class: Wednesday, August 9th
Drop Ends: Friday, August 11th
Last Day to Withdrawal with W: Friday, September 29th
Last Day of Class: Friday, December 1
Final Exam Period: December 2-8 (see The Scoop for specific times)
No classes: Monday, August 21st (Solar Eclipse)
            Monday, September 4th (Labor Day)
            Thursday, October 5th (Fall Break)
            Friday, October 6th (Fall Break)
            November 20th-24th (Thanksgiving)

COURSE ASSESSMENT

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

ALEKS modules (10%), 10 in-class quizzes (20%), 4 in-class midterms (40%), and a cumulative final exam (30%). I will calculate your final grade using only your 8 best quiz scores and 3 best midterm scores. Quizzes will be given every week except for test weeks, and always on Thursday.

NOTE: Graphing calculators equivalent to the TI 83, 84, 85, and 86 will be allowed on the exam, as will scientific calculators. The TI-89 and other equivalent calculators will not be allowed.

Grading Scale:
90% - 100%: A
80% - 89%: B
70% - 79%: C
60% - 69%: D
<60%: F
OTHER COURSE INFORMATION

Attendance is strongly encouraged. Class will emphasize student participation, which has been shown to improve learning outcomes. No extra credit will be given. If you know you cannot attend an exam, contact me at least 48 hours in advance and we may be able to make alternate arrangements. Otherwise no make-up tests or quizzes will be given.

To ensure confidentiality and timely response, all course-related email must originate from a westga.edu account and be addressed to my westga.edu email. FERPA prohibits me from discussing grades over email – if you have questions or concerns about your grade, please come to office hours or arrange an appointment.

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 https://www.westga.edu/UWGSyllabusPolicies/

Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Academic Honesty
Quizzes and exams are closed-book, closed note, individual assessments. Any attempt to cheat using notes, books, or communication with other students or outside sources will result in a grade of 0 and a report to school administration.

Students are encouraged to work with others on ALEKS modules and test review.

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. Silence all electronic devices and respect your classmates by refraining from activities that might distract them.