

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: Mrs. Carrie Carmack
Email: ccarmack@westga.edu

OFFICE HOURS

Right before/after class. Please email for an appointment.

COURSE MATERIALS

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

****YOU ARE NOT REQUIRED TO PURCHASE THE BOOK.**

****YOU MUST PURCHASE THE "ALEKS 360 ACCESS CODE" to do homework.**

ALEKS: All students in MATH 1113 are required to have an ALEKS 360 Account. Go to www.aleks.com to purchase an account. When registering, use the course code below.

The course code for this section is: YVTKV-LWQD6

In addition to the ALEKS 360 Access Code, students should purchase the following

- 1) 3 ring binder with paper.
- 2) Calculator

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 SCHEDULE

| TUESDAY | THURSDAY |
|----------------------------------|---------------------------------|
| | 6/1 Syllabus Module 1 |
| 6/6 Module 2 & 3 | 6/8 Module 3 & 4 |
| 6/13 TEST 1 | 6/15 Module 5 & 6 |
| 6/20 Module 6 & 7 | 6/22 Module 7 & 8 |
| 6/27 Module 8 & 9 | 6/29 TEST 2 |
| 7/4 HOLIDAY – NO CLASS | 7/6 Module 9 & 10 |
| 7/11 Module 11 | 7/13 Module 12 |
| 7/18 TEST 3 | 7/20 FINAL EXAM |

COURSE ASSESSMENT

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

- 1) **EXAMS:** You will be given 3 in-class exams during the semester. Each exam will be worth 100 points. **STUDENTS CAN NOT TAKE AN EXAM LATE.** If a student misses an exam, for any reason, they will not be permitted to take the exam at a later time. A student may take an exam early if they give the instructor a minimum of 5 days notice.

****Students may replace their lowest test grade with their ALEKs overall grade at the end of the semester. The ALEKs overall grade can be found in the gradebook in ALEKs.**

****A student cannot replace their final exam grade with their overall ALEKs grade.**

- 2) **FINAL:** Students will have a comprehensive final exam. Students are required to take the final exam on their scheduled day.

ASSESSMENT GRADING:

Exams: 75% (25% for each exam)

Final: 25%

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 |

***I WILL NOT INCREASE GRADES ON AN INDIVIDUAL BASIS. PLEASE DO NOT ASK.**

***I WILL NOT ALLOW ANY EXTRA CREDIT OR EXTRA WORK SO THAT STUDENTS CAN INCREASE THEIR GRADE. YOUR GRADE WILL RESULT FROM YOUR PERFORMANCE ON THE EXAMS AND FINAL.**

***WHEN GRADES ARE CALCULATED, I WILL ROUND ACCURATELY (89.4% = B, 89.5% = A)**

OTHER COURSE INFORMATION

1) ALEKs Modules: Modules will be given as homework but not be assigned for a grade. Students may replace their lowest test score with their overall ALEKs grade.

***Modules are designed to be worked as we cover the content in the semester. Do not procrastinate on your homework or you will risk not getting them finished and will receive a poor ALEKs grade. Students will NOT be given extra time to complete their modules.**

Students should have the following modules completed by each test in order to be fully prepared:

| | |
|----------------|---------------------------------|
| TEST 1: | Modules 1-4 |
| TEST 2: | Modules 5-8 (partial 9) |
| TEST 3: | Modules 9 (partial)-12 |

2) Attendance: Attendance will be taken but not used as a grade.

*Students are expected to come to class and be “present”. If you come to class to sleep, be disruptive, or use your phone, you may be asked to leave.

*It is the student’s responsibility to catch-up on any missed material. You will not be permitted to have a copy of the instructor’s notes. It is your responsibility to find out any announcements/changes made during class.

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

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.

Academic Honesty

Any form of academic dishonesty will result in a failing grade for the assignment for the first offense. This grade will be used when calculating final grades, and you will not be given the option to retake or replace this grade. A second offense will result in a failing grade for the course. All forms of academic dishonesty will be reported.

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. The following is also mandatory:

- 1) Cell phones and laptops will not be permitted in class, unless prior arrangements have been made with the instructor (emergencies, disabilities, etc). Continued use of cell phones/laptops will result in your dismissal of class.
- 2) Students are required to be courteous to others and the instructor. If a student is being disrespectful or disruptive, they will be asked to leave.