MATH 1113 Section N01 - 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: Mr. Kyle Carter
Office: Boyd 104 - D
Email: kylec@westga.edu
Phone: 678-839-5134

OFFICE HOURS:
Boyd 104 – D: Tuesday 1:30 pm – 2:00 pm and 4:30 pm – 7:30 pm
Thursday 1:30 pm – 2:00 pm and 3:30 pm – 7:30 pm
Boyd 205 (Math Tutoring Center): Tuesday 3:30 pm – 4:30 pm

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 Y9VRT-6AANG

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:

**Discussion/Participation:** This portion of your grade will be assessed in the form of Weekly Check-Ins. Every week, you should post in the Weekly Check-In discussion board in CourseDen. The Weekly Check-Ins are due every Monday (unless Monday is a holiday) and just require you to write two sentences about anything just to check in.

**Module Completion in ALEKS:** This portion of your grade is based on your completion of modules in ALEKS. Each week, you will work through modules that help you learn the required topics for this course. You will only have one week to work through each module in order to not fall behind except for weeks where we have tests. You will have two weeks for those modules.

**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. The quizzes will be representative of the work you do in the modules.

**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 for a couple of days each. The dates are posted in the Calendar in CourseDen, and I will remind you when we approach those dates.

**Proctored Final Exam:** There will be one Proctored Final Exam at the end of the semester. You will need to sign up to take the Exam at the testing center at UWG or another authorized testing center. Instructions will follow through CourseDen.

GRADE BREAKDOWN

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion/Participation</td>
<td>5%</td>
</tr>
<tr>
<td>Module Completion</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Online Tests</td>
<td>50% (12.5% each)</td>
</tr>
<tr>
<td>Proctored Final Exam</td>
<td>25%</td>
</tr>
</tbody>
</table>

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
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
While some parts of this course may be completed in groups (such as the Modules), 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.