SYLLABUS - Pre-calculus MATH-1113-LCU

Time: MWF: 13:00PM-13:52PM
Time: R: 11:00AM-11:52AM

Location: Boyd 303
Location: Boyd 302

Instructor: Senmei Yao.
Office: Boyd 106 E
Phone: 678-839-4738
e-mail: syao@westga.edu

OFFICE HOURS: M: 9:00-10:00am, 2:00-3:00pm
W: 9:00-10:00am, 2:00-3:00pm
R: 9:00-11:00am, 1:00-3:00pm
F: 9:00-10:00am,
Additional hours by appointment

COURSE DESCRIPTION:
- 4 hours
- Prerequisite: Four years of high school mathematics including algebra and trigonometry OR MATH 1111.
- This course is designed to prepare students for calculus, physics and related technical subjects. Topics include an intensive study of algebraic and transcendental functions.

TEXT: Course Compass is required. Textbook is optional.
Required: My Math Lab: a complete online multimedia resource to help you succeed in learning. The registration code is bundled free of charge with new textbooks.
Your instructor's course ID: yao49899

This includes the access code for My Math Lab. Students are required to have a current textbook (correct edition and/or year as stated on syllabus/module) for the first class session. The textbook can be either the online or traditional format.
Required: scientific calculator.

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

ATTENDANCE
Regular attendance is expected. The student is responsible for obtaining lecture notes and assignments. It is the student’s responsibility to contact the instructor prior to an absence.

GRADING CRITERIA

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<th>Points</th>
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<tbody>
<tr>
<td>Homework Assignments</td>
<td>150</td>
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<tr>
<td>Ten Quizzes (10 points each)</td>
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<td>Four Unit Exams (50 points each)</td>
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<td>Comprehensive Final Exam</td>
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<td><strong>Total</strong></td>
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<tr>
<th>Grade</th>
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<td>A</td>
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<td>B</td>
<td>80%-89%</td>
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Unit Examinations: For the date of the exam and the materials which will be covered on the exam, please see Course Schedule on CourseDen. Every student is allowed to bring one formula sheet for each unit exam. Examples and solved problems are not allowed to be on the formula sheets.

Final Examination: The final examination will be comprehensive. Students will be allowed to use formula sheets (up to four formula sheets) during the final exam. Examples and solved problems are not allowed to be on the formula sheets.

Homework: Students are expected to complete homework using My Math Lab. Student responses will determine questions to be reviewed in class. Homework
may be worked on after the due date, but will not be accepted after the test on that the chapter is completed.

**Late Assignments Policy:** Students' absence will not change the due day. Assignments will NOT be accepted after the due day.

**Makeups:**
- There is no make up for quizzes.
- There is no make up for final exam.
- Official documents are needed in order to make up a unit exam. The student has to contact the instructor 24 HOURS before the exam is given. And the make up for a unit exam has to be arranged within 7 days from the date of the exam.

**Other Course Policies:** Other course policies, including information regarding students with disabilities and the UWG Honor Code can be found at [http://tinyurl.com/UWGSyllabusPolicies](http://tinyurl.com/UWGSyllabusPolicies). You should read this at the beginning of each semester.