MATH 1413: Survey of Calculus (Section 04)    Fall 2015

Meetings: 12:00 – 12:52 pm MWF in Boyd 303  
Instructor: Dr. Xiaofeng Gu (xgu@westga.edu)  
Office: Boyd 316; Phone: (678) 839-4143  
Office Hours: MWF 8:00-9:00 am, 1:00-2:00 pm;  
T 9:00-11:00 am, 1:00-2:00 pm  
Personal Website: http://www.westga.edu/~xgu

1 Course Description:
This course will provide a survey of the differential and integral calculus of polynomial, rational, exponential, and logarithmic functions with an emphasis on applications to problems from business, economics and life sciences.

Topics
We will cover the following sections:
1.1-1.8, 2.1, 2.2, 2.4-2.7, 3.1, 3.2, 3.6, 4.2, 4.3, 4.5, and 5.1 (time permitting).

2 Learning Outcomes:
Upon successful completion of the course, you will have an understanding of ...

1. The student will be able to compute limits.

2. The student will be able to differentiate polynomial, rational, exponential, and logarithmic functions.

3. The student will be able to apply differential calculus to problems from business, economics, and life science.

4. The student will be able to integrate polynomial, rational, exponential, and logarithmic functions and to apply the Fundamental Theorem of Calculus.

5. The student will be able to apply integral calculus to problems from business, economics, and life science.

6. The student will understand the basic techniques of integration.
3 Evaluation (total 700 points)

Quizzes (total 100 points): Quizzes are usually on Friday, based on the material covered in previous 3-4 classes. About 15-20 minutes each.

Midterm Exams (four of them, each worth 100 points): The exact exam dates will be announced about one week before each exam date.

Final Exam (200 points): This exam is comprehensive and cumulative. So, any course content from the entire semester is fair game. The final exam is scheduled on December 7, Monday, 11:30 am – 1:30 pm.

Grades: Grades will be based on the following percentages.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100:</td>
<td>A</td>
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<tr>
<td>80-89:</td>
<td>B</td>
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<td>70-79:</td>
<td>C</td>
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<td>60-69:</td>
<td>D</td>
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<tr>
<td>0-59:</td>
<td>F</td>
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4 Policies

Attendance:

You are expected to attend all classes. If you miss a class, you are responsible for getting all information and materials that you missed.

Homework:

Homework will be assigned for every section. Although it will not be collected and graded, you are strongly encouraged to do homework in order to understand the materials, and to prepare for quizzes and exams.

Make-ups:

Make-up will be granted only for excused absences (scheduled University-approved activities such as field trips, debate trips, choir trips, and athletic contests, or verifiable medical doctor’s excuse). In that case, the student is required to contact the instructor in advance to reschedule the make-up. If that is impossible, the student must contact the instructor the same day of the test by email or phone to let the instructor know. Failure to do so will result in a zero score. All students are required to take the final exam at the scheduled time and no make-up for final exam.

Common university policies:

Other course policies, including information regarding students with disabilities and the UWG Honor Code can be found at http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf. You should read this at the beginning of each semester.

5 Important Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>August 24-26</td>
<td>:Drop/Add and late registration</td>
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<tr>
<td>September 7</td>
<td>:Labor Day Holiday</td>
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<td>October 14</td>
<td>:Last Day to Withdraw with a grade of W</td>
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<tr>
<td>November 23-27</td>
<td>:Thanksgiving Holiday</td>
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<tr>
<td>December 7, Monday, 11:00 am – 1:30 pm</td>
<td>:Final Exam</td>
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