Course Syllabus

Course Number and Section: Math 1432, 13214 (Lecture) and 15246 (Lab)
Course Name: Calculus II
Instructor: James West, jdwest@math.uh.edu
Office Hours: By appointment
Course Homepage: http://www.math.uh.edu/~jdwest/Winter12/Math1432winter.htm

Note: The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Sections We Will Cover:

Chapter 7. THE TRANSCENDENTAL FUNCTIONS
Section 7.1. One-to-One Functions; Inverses
Section 7.2-3. The Logarithm Function
Section 7.4. The Exponential Function
Section 7.5. Arbitrary Powers; Other Bases; Estimating e
Section 7.6. Exponential Growth and Decay
Section 7.7. The Inverse Trigonometric Functions
Section 7.8. The Hyperbolic Sine and Cosine Functions

Chapter 8. TECHNIQUES OF INTEGRATION
Section 8.2. Integration by Parts
Section 8.3. Powers and Products of Trigonometric Functions
Section 8.4. Trigonometric Substitutions
Section 8.5. Partial Fractions
Section 8.7. Numerical Integration

Chapter 9. POLAR COORDINATES; PARAMETRIC EQUATIONS
Section 9.3. Polar Coordinates
Section 9.4. Graphing in Polar Coordinates
Section 9.5. Area in Polar Coordinates
Section 9.6. Curves Given Parametrically
Section 9.7. Tangents to Curves Given Parametrically
Section 9.8. Arc Length and Speed

Chapter 10. SEQUENCES; INDETERMINATE FORMS; IMPROPER INTEGRALS
Section 10.1-2. The Least Upper Bound Axiom; Sequences of Real Numbers
Section 10.3-4. Limit of a Sequence; Some Important Limits
Section 10.5. The Indeterminate Form (0/0)
Section 10.6. The Indeterminate Form (∞/∞); Other Indeterminate Forms
Section 10.7. Improper Integrals

Chapter 11. INFINITE SERIES
Section 11.1. Infinite Series
Section 11.2. The Integral Test; Comparison Theorems
Online Live Lectures: 6:00-8:30pm Tuesdays and 1:00-3:30pm Wednesdays. Video recordings will be posted on the course webpage. Students are required to attend one live lecture per week. **Students who do NOT attend at least one online live meeting per week will be required to complete an alternate assignment to replace their daily in-class grade. If you do not like your popper score from class, you can complete the alternate assignment for extra credit.**

**Text:** CALCULUS, 9th edition. Authors: Salas/Hille/Etgen. Publisher: John Wiley & Sons, Inc. **Note:** Students need to purchase an Access Code from the UH bookstore to access the text and additional electronic learning materials through CourseWare at http://www.casa.uh.edu. Students are required to purchase the Access Code even if they purchase their own physical copy of the text. Please do not think of this as optional, it is impossible to pass this class without purchasing an Access Code.

**Recitation (lab):** There is no separate recitation grade. You have signed up for lecture section and recitation (lab) section. The two sections are interwoven in the course, and a grade will be given for lecture course, representing the work in the combined classes. The lab session is a problem working session that will meet twice weekly online at a time to be determined.

**Homework:** Homework will be assigned each week. Multiple choice homework assignments will be submitted online using EMCF on CASA. Written homework will be collected throughout the semester. Students will submit their written homework by scanning their written work and then uploading it using the CASA website. Instructions will be given.

**Daily Grades (EMCFs):** Daily grades will be given in the online lectures beginning the first day of class. During the lecture time, students will log into CourseWare and answer questions using the online EMCF form.

**Online Quizzes:** Online quizzes will be given during the semester. You can attempt these quizzes up to 20 times, and the highest grade will be used for your score. You can access the quizzes by logging into CourseWare at http://www.casa.uh.edu.

**Discussion Board Participation:** There is a class discussion board located on CourseWare at http://www.casa.uh.edu. Students are expected to post a question or reply to a post once a week for your discussion board participation grade. Posts must be related to the course content to count towards your grade.
**Exams:** Proctored midterms and final exams will be given on campus in the CASA testing center. The final exam will be comprehensive. If you live outside of the Houston area, you may ask for permission to have your exams proctored at a location in your area. For more information see [http://distance.uh.edu/services/exam_proctoring.html](http://distance.uh.edu/services/exam_proctoring.html). Exams for the spring 2013 semester will be given on the following dates:

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Exam 1: March 1, 2  
Exam 2: April 12, 13  
Final Exam: May 3 -- 5  
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**Grading:**

Online Quizzes - 10%
Homework – 10%
Daily grades - 10%
Test 1 (online) - 10%
Tests 2 & 3 (15% each) - 30%
Final Exam - 30%

90% and above - A
at least 80% and below 90% - B
at least 70% and below 80% - C
at least 60% and below 70% - D
below 60% - F

Notice that a portion of your grade will be determined from daily grades, which includes answering EMCF questions correctly in lecture and lab, completing the alternate assignment for that day, and participation on the discussion board.

**Whenever possible, and in accordance with 504/ADA guidelines, we will attempt to provide reasonable academic accommodations to students who request and require them.**