Honors Calculus I

Math 136-012   MWF 10:20 -11:15, TR 9:35-10:30   COHH 3119   4 hours credit

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                Others by appointment or capture

Welcome to honors calculus! I hope that you are as excited about this course as I am. Calculus provides basic preparation for numerous fields in science and business. It is incredibly applicable.

There will be four tests and a comprehensive final. Online homework will be assigned regularly. We will use WebAssign. In addition you will have some special honors problems assigned. They may be more challenging than typical homework problems.

You will need to purchase a WebAssign account and self-enroll in our WebAssign course. The class key will be wku 7087 7301. See below for additional information.

Prerequisites: Four years of high school mathematics, including Algebra II, geometry and trigonometry, and satisfactory score on the Math Placement Exam; or MATH 117 or MATH 118, with grade of C or better.

Learning Objectives:

Upon completion of Math 136 a student will be able to:

1. manipulate and demonstrate knowledge of concepts involving limits.
2. differentiate functions.
3. perform integration.
4. apply differentiation and integration to real world problems.
5. apply sophisticated graphing techniques.

Math 136 is part of the Quantitative Reasoning portion of the Colonnade Plan. Quantitative Reasoning courses teach students to interpret, illustrate, and communicate mathematical and/or statistical ideas. Students will learn to model and solve problems.

Students will demonstrate the ability to:

1. Interpret information presented in mathematical and/or statistical forms.
2. Illustrate and communicate mathematical and/or statistical information symbolically, visually, and/or numerically.
3. Determine when computations are needed and execute the appropriate computations.
4. Apply an appropriate model to the problem to be solved.
5. Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services, DUC A-200. Do not request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.

Your grade will be determined as follows:

Homework	20%
Test (4)	60%
Final	20%

Keep up! Do your homework and please make use of my office hours. That time is yours not mine! If I did not enjoy talking to students, I would not teach. Make-ups for test will be determined on a case by case basis. Any test with the exception of the final may be taken early if I am contacted in time.

Exam I	Thursday, September 10
Exam II	Tuesday, September 29
Exam III	Thursday, October 15
Exam IV	Thursday, November 12
Final	Monday, December 7 10:30-12:30

Departmental Syllabus
Math 136

Calculus of a Single Variable Early Transcendental Functions, 6th Edition
Larson, Edwards. Cengage Learning ©2014.

There are 41 MWF – days in a fall semester course and 42 MWF-days in a spring semester course. (These courses are assigned a MWF and TR time slot. Meeting times include lecture and recitation, as set by the instructor.) Oct. 14 is the last day to drop with a W.

Math 136	Days
Chapter 1: Preparation for Calculus	2
Chapter 2: Limits and Their Properties	5
Chapter 3: Differentiation	9-10
Chapter 4: Application of Differentiation	8
Chapter 5: Integration (Sections 5.1-5.7)	7
Chapter 6: Differential Equations (Sections 6.1-6.3)	3
Chapter 7: Applications of Integration (Sections 7.1) (Optional)	
Tests:	3-4
Total:	37-39

WebAssign Information.

Course Name: Math 136-012 CRN 38804 Honors Calculus I

Start Date: Aug 24 2015

Instructor Name: Spraker

Class Key: wku 7087 7301

Accessing your Technology

1.   Go to www.webassign.net

2.   Click on "I have a Class Key". Enter Class Key (see above)

3.   Click on 'Yes, this is my class'

4.   Either create a WebAssign account or login using the WebAssign account you already have.