

**ISC 2215 Applications of Calculus I**  
**Spring 2010**

**Instructor:** Dr. Cherie Geiger

**Office:** CH325, (407)823-2135, [cgeiger@mail.ucf.edu](mailto:cgeiger@mail.ucf.edu)

**Classroom and Time:** Wednesday 4:30 - 5:45 PM, HPA 112

**Text:** Applications of Calculus I (on-line, <http://excel.ucf.edu>)

**Goal of this Course:** To enhance your understanding and performance in Calculus I. This requires ACTIVE PARTICIPATION ON YOUR PART. Pay attention to the speaker while in class, review pertinent calculus class-work before coming to class, and read the appropriate chapter in your EXCEL book before coming to class. Bring the EXCEL chapter with you to class.

**Grading:** Your grade depends entirely on your participation in class as recorded with the use of i-clicker technology and is broken down as follows:

**Read Ahead Quizzes (30%):** given at the beginning of each lecture and based on the EXCEL chapter of the day and related calculus topics from calculus text book.

**Red-colored questions from presentation (50%):** Each presentation contains red- and blue-colored questions. Red questions have calculus content.

**Blue colored questions from presentation (20%):** Blue colored questions cover presentation-specific content.

\*\*In addition, if you score 80% or higher on the blue questions, you will get an extra 2 percent on your final grade.

**Grading scale:** 90 – 100 A; 80 – 89 B; 70 – 79 C; 60 - 69 D; 0 – 59 F.

**Disability Policy:** Students with disabilities who need accommodations in this course must contact the professor at the beginning of the semester and must be registered with Student Disability Services (Student Resource Center, room 132, phone 407-823-2371, TTY/TDD only phone 407-823-2116) before requesting accommodations.

**Academic Honesty:** When selecting i-clicker answers to in-class questions, it is expected that you are doing the work on your own. No one should share her/his i-clicker answers with any other student. Academic dishonesty is strictly forbidden and disciplinary action in accordance with University policy will be taken in response to such behavior. For more information please see the UCF Golden Rule Handbook or visit <http://www.ucf.edu/goldenrule>.

**Important Dates:**

Withdrawal Deadline: March 5, 2010

Spring Break: March 8-13

UCF Spring 2010 Calendar: <http://www.registrar.sdes.ucf.edu/calendar/academic/2010/spring/>

## Schedule for Applications of Calculus I, Spring 2010

<b>Week</b>	<b>Date</b>	<b>Title</b>	<b>Presenter</b>
1	1/13	Introduction and Getting Ready	Dr. Geiger
2	1/20	Limits and Rates of Change: <i>applications to heat transfer</i>	Dr. Kassab
3	1/27	Limits and Rates of Change: <i>applications to heat transfer</i>	Dr. Kassab
4	2/3	Chemical Kinetics	Dr. Clausen
5	2/10	Chemical Kinetics	Dr. Clausen
6	2/17	Applications of Derivatives and Related Rates in Physics	Dr. Dubey
7	2/24	Applications of Derivatives and Related Rates in Physics	Dr. Dubey
8	3/3	Calculus for Simple Physically-Based Animation	Dr. Laviola
9	3/8-13	Spring Break	
10	3/17	Calculus for Simple Physically-Based Animation	Dr. Laviola
11	3/24	Application of Maximum and Minimum Values and Optimization to Engineering Problems	Dr. Chopra
12	3/31	Application of Maximum and Minimum Values and Optimization to Engineering Problems	Dr. Chopra
13	4/7	Applications of Integration in Biomedical Science	Dr. Self
14	4/14	Applications of Integration in Biomedical Science	Dr. Self
15	4/21	Calculus Review	TBA
16	4/27-5/3	Final Exam Week	No class