

ISC 2215

Applications of Calculus I

Fall 2009

Instructor: Dr. Alvaro Islas **Office:** MAP202A **(407) 823-3961** **aislas@mail.ucf.edu**

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

Text: Applications of Calculus I (Available online at www.excel.ucf.edu)

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

Read Ahead Quizzes (30%) given in the beginning of each lecture and based on the chapter content of the day.

Red-colored (50%) questions with Calculus content.

Blue-colored (20%) questions with lecture-specific content.

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

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

Important Dates:

Withdrawal Deadline: Friday, October 6

Labor Day: Monday, September 7

Veteran's Day: Wednesday, November 11

Thanksgiving Break: November 26 - 28

UCF Fall 2008 Calendar: <http://www.registrar.sdes.ucf.edu/calendar/academic/2009/fall/>

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>.

Week	Date	Schedule for Applications of Calculus I Fall 2009 Title	Presenter
1	8/26	Introduction and Getting Ready	TBA
2	9/2	Limits and Rates of Change: applications to heat transfer	Dr. Kassab
3	9/9	Limits and Rates of Change: applications to heat transfer	Dr. Kassab
4	9/16	Chemical Kinetics	Dr. Clausen
5	9/23	Chemical Kinetics	Dr. Clausen
6	9/30	Applications of Derivatives and Related Rates in Physics	Dr. Dubey
7	10/7	Applications of Derivatives and Related Rates in Physics	Dr. Dubey
8	10/14	Calculus for simple physically-based animation	Dr. Laviola
8	10/21	Calculus for simple physically-based animation	Dr. Laviola
10	10/28	Application of Maximum and Minimum Values and Optimization to Engineering Problems	Dr. Chopra
11	11/4	Application of Maximum and Minimum Values and Optimization to Engineering Problems	Dr. Chopra
12	11/11	Veteran's Day	No classes
13	11/18	Applications of Integration in Biomedical Science	Dr. Self
14	11/25	Applications of Integration in Biomedical Science	Dr. Self
15	12/2	Evaluations & Final Exam Review	TBA
16	12/8 - 14	Final Exam Period	