

**Instructor:** Dr. A. Islas **OH:** MWF 10:30-11:30, TR 4:30-5:30 in MAP202A (407) 823-3961

**TAs OH in CCII 223:** Ms. D. Passeri (dpasseri@knights.ucf.edu) MTWR 8-10, R 2-4

Ms. S. Novaes-Card (snovaescard@knights.ucf.edu) MW 1-4, R 8-12

**Classroom and Time:** CL1 104, Wed 4:30 - 5:45 PM

**Course Goals:** To reinforce Calculus concepts by exposing them to the applications of Calculus as practiced by UCF faculty.

**Text and Course Description:** Applications of Calculus I (Available online at [www.excel.ucf.edu](http://www.excel.ucf.edu)). Interdisciplinary applications of differential and integral calculus topics in MAC 2311 to the solution of concrete problems in science, mathematics, and engineering disciplines.

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

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

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

**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:** Thursday, October 27

**Labor Day:** Monday, September 5

**Veteran's Day:** Friday, November 11

**Thanksgiving Break:** November 24 - 26

**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 visit <http://www.ucf.edu/goldenrule>.

<b>Week</b>	<b>Date</b>	<b>Title</b>	<b>Presenter</b>
1	8/24	Introduction and Getting Ready	TBA
2	8/31	Limits and Rates of Change: applications to heat transfer	Dr. Kassab
3	9/7	Limits and Rates of Change: applications to heat transfer	Dr. Kassab
4	9/14	Chemical Kinetics	Dr. Clausen
5	9/21	Chemical Kinetics	Dr. Clausen
6	9/28	Water Resources Engineering: Reservoir Operation	Dr. Madani
7	10/5	Water Resources Engineering: Reservoir Operation	Dr. Madani
8	10/12	Calculus for simple physically-based animation	Dr. Laviola
9	10/19	Calculus for simple physically-based animation	Dr. Laviola
10	10/26	Application of Maximum and Minimum Values and Optimization to Engineering Problems	Dr. Chopra
11	11/2	Application of Maximum and Minimum Values and Optimization to Engineering Problems	Dr. Chopra
12	11/9	Applications of Integration in Biomedical Science	Dr. Self
13	11/16	Applications of Integration in Biomedical Science	Dr. Self
14	11/23	Makeup Quiz Day	TBA
15	11/30	Evaluations & Final Exam Review	TBA
16	4/26 - 5/2	Final Exam Period	