

**IDS 2930**  
**APPLICATIONS OF CALCULUS I**  
**FALL 2006**

- COORDINATOR:** Dr. Cherie Geiger
- OFFICE HOURS:** CH325, T, Th 12:00-2:00
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- TEXT:** Applications of Calculus I. Edited by: Cherie L. Geiger and Tomasz Wlodarczyk
- GRADING:** Assignments from individual faculty presenters 100 pts. each for a total of 700 pts. Homework projects and in-class problems/writing will be given for each chapter of work. Grading scheme for each faculty presenter is included in the class text. This class is scored based on the following system >90=A; 80-89=B; 70-79=C; 60-69=D; below 59=F. I will not give +/- grades.

**ORGANIZATION OF COURSE:** There will be a total of seven faculty presenters who will each spend two weeks with the Applications of Calculus I class. During the first week of each module, the presenter will give a lecture of at least one-hour covering his/her topic of interest and end the first week with a take-home project for students to turn in the following week. During the second week, the faculty will review the solutions to the take-home project and discuss the logic/procedure for completing the project and may present new material to supplement the first week of his/her module. Each presenter will also have in-class problem solving/writing exercises for the first and possibly second week of his/her module.

**COURSE OBJECTIVE:** The goal of the EXCEL program is to enhance understanding of mathematics (primarily calculus) for Science, Technology, Engineering and Mathematics (STEM) students. Mathematics is considered the cornerstone of the success of any student pursuing a degree in a STEM discipline. One way of achieving this goal at UCF is by introducing students to the Application of Calculus courses. The presentations that the individual EXCEL faculty members will make in the Applications of Calculus I class will show you how material that you will be learning in your Calculus I class is *actually used* in the discipline of the faculty presenter. These presentations are correlated with sections of your calculus book and will be presented just shortly after you cover these sections in your Calculus I class.

**SCHEDULE:**

<b>Faculty Presenter (Home Department)</b>	<b>Week and dates covered in Applications of Calculus I Course</b>	
	<b>Week #</b>	<b>Dates</b>
<b>Drs. Georgiopoulos and Mollaghasemi (Elect. And Comp. Eng)</b>	<b>2 &amp; 3</b>	<b>8/29 &amp; 9/5</b>
<b>Dr. Turgut (Elect. And Comp. Eng)</b>	<b>4 &amp; 5</b>	<b>9/12 &amp; 9/19</b>
<b>Dr. Kocak (Elect. And Comp. Eng.)</b>	<b>6 &amp; 7</b>	<b>9/26 &amp; 10/3</b>
<b>Dr. Clausen (Chemistry)</b>	<b>8 &amp; 9</b>	<b>10/10 &amp; 10/17</b>
<b>Drs. Islas and Schober (Math)</b>	<b>10 &amp; 11</b>	<b>10/24 &amp; 10/31</b>
<b>Dr. da Vitoria Lobo (Comp Sci)</b>	<b>12 &amp; 13</b>	<b>11/7 &amp; 11/14</b>
<b>Dr. Pensky (Math)</b>	<b>14 &amp; 15</b>	<b>11/21 &amp; 11/28</b>

**CLASS ETIQUETTE:**

Just a few simple behavior rules will create a classroom atmosphere conducive to learning. The following rules will be strictly followed in this class. I will go over these rules in detail during the first class period.

1. No talking when the presenter is talking. There will be several times during any presentation when the lecturer asks for questions. There will be times during presentations when students work in groups. Students may talk with each other during those times.
2. If you must come to class late OR leave early, seat yourself at the back of the class.
3. Come to class prepared to listen intently and take lots of notes.

The instructor reserves the right to modify the schedule and/or the grading basis, if in the professional judgement of the instructor, such modification is in the best interest of fulfilling the objectives and assuring the academic integrity of the course and the instruction.