Course Objectives
To learn the two fundamental concepts of calculus: the derivative and the integral, and to learn the basic tools and techniques of differentiation and integration.

Foundations of Knowledge & Learning
This course earns 4 semester hours of credit and is part of the University of South Florida's Foundations of Knowledge and Learning (FKL) Core Curriculum. It is approved for Mathematics and Quantitative Reasoning and will meet the following four dimensions: Critical Thinking, Inquiry-based Learning, Scientific Processes, and Quantitative Literacy.

General Information
Instructor: Xiang-dong Hou, associate professor of mathematics
Office: PHY 355
Office Hours: Wed. Fri. 1:00 – 2:00 pm, other times by appointment
Phone: 974-2561
E-mail: xhou@mail.cas.usf.edu
Web: http://www.math.usf.edu/~xhou/MAC2281S10/MAC2281.htm

Syllabus
Chapter 1: Sections 1.1 – 1.6
Chapter 2: Sections 2.1 – 2.6
Chapter 3: Sections 3.1 – 3.7
Chapter 4: Sections 4.1 – 4.8
Chapter 5: Sections 5.1 – 5.5

Examinations
There will be three mid-term examinations and one final examination. Two of your three mid-term exams will be counted; the one with the lowest score will be dropped. All examinations are close-book and close-notebook. Calculators are allowed as long as they do not have the feature of symbolic differentiation and integration. Cell phones should be turned off during all examinations. Dates and coverage of the examinations are as follows:

<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-term 1:</td>
<td>02/05 Fri. 11:50 am - 12:40 pm</td>
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<tr>
<td></td>
<td>sections covered till then</td>
</tr>
<tr>
<td>Mid-term 2:</td>
<td>03/19 Fri. 11:50 am - 12:40 pm</td>
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<tr>
<td></td>
<td>sections covered between mid-terms 1 and 2</td>
</tr>
<tr>
<td>Mid-term 3:</td>
<td>04/16 Fri. 11:50 am - 12:40 pm</td>
</tr>
<tr>
<td></td>
<td>sections covered between mid-terms 2 and 3</td>
</tr>
<tr>
<td>Final:</td>
<td>05/05 Wed. 12:30 pm - 2:30 pm</td>
</tr>
<tr>
<td></td>
<td>all sections</td>
</tr>
</tbody>
</table>

Homework
A few problems from each section will be collected for grading. These problems and their due dates are assigned in class at the beginning of each section. Homework is collected once a week, usually on Monday. Your home work will be graded by a grader. Exams are based on homework problems.
Grading

The examinations will be graded by the instructor. Each examination is graded on a grading scale. The grading scale will be determined and made available to you after each examination. Your course grade is based on the following weights:

- Mid-terms: 24% each
- Final: 32%
- Homework: 10%
- Lab: 10%  (See below)

Calculation of Grade

Your weighted average score for the whole course is calculated using the following formula:

\[
\text{weighted average score} = \frac{\text{total of two highest midterms}}{200} \times 48 + \frac{\text{final}}{100} \times 32 + \frac{\text{hw}}{\text{hw total}} \times 10 + \frac{\text{lab}}{\text{lab total}} \times 10
\]

The grading scale for the whole course is determined by the following formula: (I am using minimum A as an example. Minimum B, C, D are determined in the same way.)

\[
\text{minimum A} = \frac{\text{min A of midterm1}}{100} \times 16 + \frac{\text{min A of midterm2}}{100} \times 16 + \frac{\text{min A of midterm3}}{100} \times 16
\]
\[
+ \frac{\text{min A of final}}{100} \times 32 + \frac{\text{min A of hw}}{\text{hw total}} \times 10 + \frac{\text{min A of lab}}{\text{lab total}} \times 10
\]

Other Policies

Since one of your three mid-term exams will be dropped, there are no make-up midterm exams. No late homework will be graded unless you have an acceptable reason either discussed with me in advance or supported by suitable documents. There is no attendance policy.

Use of Blackboard

If you miss a class, you can find the homework assignment due date on the Blackboard. Check the item “Assignments”. This handout is also posted on the Blackboard under the item “Syllabus”.

STEM Mart

STEM Mart is a new help center intended to provide tutoring for students in Life Sciences Calculus I, II, and III, Engineering Calculus I, II and III, and Calculus I, II, and III. STEM Mart is staffed by undergraduate student leaders and graduate students. In addition to receiving tutoring in Calculus, students will be able to get help in introductory biology, chemistry, and physics courses.

Located in the Main Library on the 2nd floor, Room 206

Hours of Operation:

- Monday – Thursday 10:00am - 9:00pm
- Friday 11:00am - 4:00pm
- Sunday 1:00pm - 5:00pm
Labs (Peer Led Sessions)
This course has a lab portion consisting of peer leading sessions. The peer leading sessions are on Monday from 11:50 to 12:40 starting the third week of class. Regular lectures on these Mondays start at 12:50. Here is some information about the peer leading sessions. More information will be available from the peer leaders.

- The peer leading sessions are operated independently from the regular lectures. The instructor is not involved in this portion of the course. However, the grade you receive from the peer leading sessions will constitute 10% of your course grade.
- Attendance at the peer leading sessions is mandatory.
- There is a quiz at the beginning of each peer leading session. This quiz will be taken directly from the lab warm ups you will receive the week before and from the previous week’s lab. If you are late for your peer leading session, you will not be allowed to take the quiz. If you miss a quiz, you will receive a grade of 0, and there are no make up quizzes.
- During the session, your peer leader will hand out a lab report sheet and the group must fill out the sheet and each member must sign it. Your signature on the lab report will document your attendance for that peer leading session. The lab report grade will be part of your quiz grade for that session.