Isaac Newton, English mathematician and physicist, 1643-1727. "I know not what I appear to the world, but to myself I seem to have been only like a boy playing on the sea-shore, and diverting myself in now and then finding a smoother pebble or a prettier shell, whilst the great ocean of truth lay all undiscovered before me."

--Quoted in D Brewster, Memoirs of Newton

Instructors:
Lectures Prof. Richard Carey - 007/8/9
Recitations Casey Gregory - 007
Recitations Peixing Fei - 008/009

MWF 0200-0250 CB 238
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E-MAIL

Section 007 TR 0800-0915
Office Hours: M 0300-0400
W 1100-1200 (Mathskeller)

Office POT 906
Phone 257-7217
Text: Calculus, 5th Ed. By James Stewart
Supplements: Math resource center (Mathskeller) CB 65

Course Description [Bulletin Description]

Grading

Exam, Quiz, and Attendance Policy

Cheating

Homework

Course Calendar
Calculus II  
MA 114-007,008,009  
Fall 2007

Course Description [Bulletin Description]

MA 114 CALCULUS II, (4)  
A continuation of MA 113, primarily stressing techniques of integration.  
Lecture, three hours; recitation, two hours per week. Prereq: High school trigonometry or  
MA 112; and a grade of C or better in MA 113 or MA 132.

During the semester we will cover parts of

- Chapter 7  Inverse functions
- Chapter 8  Techniques of integration
- Chapter 11  Parametric equations and polar coordinates
- Chapter 12  Infinite sequences and series

Chapter 7 is concerned with defining and differentiating the inverse trigonometric  
functions, as well as exponential and logarithmic functions. Chapter 8 deals with integration  
techniques: integration by parts, partial fractions and trig substitution. In Chapter 11 we  
study parametric equations and develop formulas for arc length and area of a region  
bounded by a parametric curve. Chapter 12 is concerned with convergence tests for infinite  
sums of numbers: integral, comparison, ratio, root, absolute and alternating series tests. In  
this chapter we also consider special series such as Taylor series and power series.
Your main goal should be to learn the material well enough so that you can use calculus in an applied context such as biology, business and economics, computer science, engineering, chemistry, physics, or social science, etc. It is essentially impossible to passively teach mathematics; it must be actively learned. To understand what this means, consider the impossibility of learning to play tennis by listening to someone describe how to play tennis. You will not learn the material in this course by just listening to the lectures, and thinking to yourself - "Yes, I understand that". You must work the problems and make mistakes before you will begin to learn. The instructor's task is that of an assistant to help you learn as much of the material as you desire.
Grading: Your grade will be evaluated on the following distribution of points:

**Instructor points**

| Quizzes          | 100 points |

Some quizzes maybe in the form of class presentations.

**Exam Points**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>Below 60</td>
<td>E</td>
</tr>
</tbody>
</table>

There will be four exams given in this course. The grading scale for the first three exams - which are scheduled in the evenings - will be as follows:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>117-130</td>
<td>A</td>
</tr>
<tr>
<td>104-116</td>
<td>B</td>
</tr>
<tr>
<td>91-103</td>
<td>C</td>
</tr>
<tr>
<td>78-90</td>
<td>D</td>
</tr>
</tbody>
</table>

The grading scale for the final exam will be as follows:
Below 78   E

Your course score will be the sum of your tests scores and the instructor score. The grading scale for the course will be as follows:

<table>
<thead>
<tr>
<th>Cumulative score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>477-530</td>
<td>A</td>
</tr>
<tr>
<td>424-476</td>
<td>B</td>
</tr>
<tr>
<td>371-423</td>
<td>C</td>
</tr>
<tr>
<td>318-370</td>
<td>D</td>
</tr>
<tr>
<td>below 318</td>
<td>E</td>
</tr>
</tbody>
</table>

The exams will be curved in the following way. The mean of all students who earn 30% (40% on the final exam) or more on an exam will be computed. Points will be added to the scores so this mean is adjusted to a score of 75 (97.5 on the final). If the mean is 75 or more, no points are added to the scores. You must bring a photo ID to each exam and you may use a calculator on the exams.
Exam, Quiz and Attendance Policy: In order to be fair to all students, dates of quizzes and exams are firm. It is very important to take each exam on schedule. Missed work may be made up only due to illness with medical documentation or for other unusual (documented) circumstances. (See your Student Rights and Responsibilities http://www.uky.edu/StudentAffairs/Code/). Students who have university excused absences or who have university-scheduled class conflicts with uniform examinations may arrange with their instructor to take the exam at an alternate time. Generally these make-up exams will be scheduled on the same day as the regularly scheduled exam from 7:30-9:30 PM. Work-related conflicts are neither university excused absences or university-scheduled absences. If you miss an exam, you receive a zero. You will be eligible for a make-up only if you present a valid excuse to me before the exam. If you cannot find a reasonable arrangement for a make-up, contact the departmental Ombudsman, TBA. If you miss 4 recitation sections your cumulative score drops by 10%, i.e., from A to B. If you miss 5 recitation sections your cumulative score drops 15%; if you miss 6 recitation sections you lose 20%, e.g., A to C. If you miss 7 or more recitation sections you get an E. This policy begins the week of Sept. 10, 2007.

Excused Absences: S.R. 5.2.4.2 defines the following as acceptable reasons for excused absences:

1. serious illness;
2. illness or death of family member;
3. University-related trips;
4. major religious holidays;
5. other circumstances you find to be "reasonable cause for nonattendance."
Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day for adding a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (257-2754).