Course Syllabus
Calculus II

Instructor: Andy Miller
Office: PHSC 801
Phone: 325-4986
e-mail: amiller@math.ou.edu

Course Web Site: www.math.ou.edu/~amiller/2423
Office Hours: Mon 2:30-3:30 PM, Wed 11:30-12:00, Thurs 9-10:30 AM, or by appointment

Brief Description: This course is the second of a four semester sequence of calculus courses. It provides an introduction to the concept and theory of integration of functions of one real variable. An emphasis will be put on applications of definite integrals in a variety of settings. A significant portion of the course will also be spent developing properties of important transcendental functions—such as logarithms, exponentials and inverse trig functions—which were not introduced in the Calculus I course. The course description which appears in the OU General Catalog gives more details:

2423 Calculus and Analytic Geometry II. Prerequisite: Math 1823 Integration and its applications; the calculus of transcendental functions; techniques of integration; and the introduction to differential equations. A student may not receive credit for this course and Math 2123.

The Calculus I (Math 1823) prerequisite is very important for this course. Specifically, you will need to be well experienced with: fundamental algebra, graphing functions in the plane, basic concepts and theory of limits and derivatives, rules of differentiation, rational and trigonometric functions, the mean value theorem and its corollaries, maximum/minimum theory and curve sketching.

Text: The course textbook will be Calculus (Fifth Edition) by James Stewart (Brooks/Cole, 1999). Most of Chapters 5 through 9 will be covered during the semester. Reading and studying the textbook as the semester progresses is critically important for your success in the class. I will always assume that you are reading the portions of the textbook as they are discussed in class.

Mathematica: Over the semester there will be some assigned projects involving the computer algebra system MATHEMATICA. The University of Oklahoma maintains a site license for this software and it is available for students in all of the Arts and Sciences Computer Labs on campus. Two or three times during the semester the class will meet in one of the computer labs.

Exams: There will be three midterm tests and a final exam:
First Exam: Wednesday, September 20
Second Exam: Monday, October 23
Third Exam: Friday, November 17
Final Exam: Thursday, December 14, 8:00-10:00 AM
Grading: Grades will be determined according to the breakdown:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Team Assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Three Midterms</td>
<td>40%</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
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(For each student, the lowest midterm score will be weighted at 10% and the other two will be weighted at 15%.) Final course grades will be based on the scale:

- A: 90%, B: 80%, C: 70%, D: 60%, F: below 60%

Please note that the Assignments and Team Assignments forms a significant portion of the complete course grade.

Class Attendance: The day-to-day class lectures and discussions form the backbone of this course. Routine attendance at the class is essential and expected of students.

Homework Assignments: Homework will be assigned on a regular basis (roughly one per week). Assistance on homework and related problems is available during my office hours, and you are also encouraged to e-mail me with any questions that might arise.

Each homework assignment will be graded out of 20 points. In determining the Assignment portion of the total course grade, the lowest 15% (roughly) of the assignment and quiz grades will be dropped at the end of the semester. So, for example, if there are 20 assignments then the 17 highest scores will contribute to your Assignment score for the semester. When homework is collected, it will always be due by 4:00 PM on the assigned date, and late papers will not be accepted. Assignments should be written on 9.5 by 11 paper, and folded lengthwise with your name clearly marked on the outside. The point of the homework assignments is to provide a minimum level of exposure to the course topics and to aid in your understanding of basic concepts. To prepare adequately for this course, you will need to work many more problems than just the assigned ones in order to feel comfortable with, and master, the ideas involved. The textbook is an excellent resource for good problems, and most of the odd-numbered problems have answers at the end of the book.

You are allowed and encouraged to discuss assignments with classmates, at the rough draft stage. However each student must independently prepare their own written version of the final draft of the assignment.

Student Disabilities: The University of Oklahoma is committed to providing reasonable accommodations for all students with disabilities. If you require special accomodation in the course please discuss this with me as soon as convenient so that we can take steps to ensure your full participation in the course and to facilitate your academic opportunities.

Academic Misconduct: The rules governing cases of academic misconduct may be found at www.ou.edu/provost/integrity. Students should also be familiar with the Academic Misconduct Code which may be found at www.ou.edu/studentcode.