Instructor: Filix Maisch  
Meetings: MWF 3 - 3:50 PM  
Room: Pharmacy 305  
off. hrs: MWF 11 - 11:50 AM, Tue 2 - 2:50 PM, or by appt. (Tue in MLC).  
Text: Calculus, Briggs, Cochran  
Web: people.oregonstate.edu/~maischf/  

Attendance: Regular attendance will be expected, but roll will not be taken.  
Honor Code: Students are expected to be familiar with Oregon State University’s Statement of Expectations for Student Conduct. Please review this statement at the following web link:  
http://oregonstate.edu/admin/stucon/achon.htm  

Accommodations: Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term. Students who believe they are eligible for accommodations should contact DAS immediately at 737-4098.  

Course Description: Differential calculus for engineers and scientists. Rates of change: the derivative, velocity, and acceleration. The algebraic rules of differential calculus and derivatives of polynomial, rational, and trigonometric functions. Maximum-minimum problems, curve sketching, and other applications. Antiderivatives and simple motion problems.  

Evaluation: Your grade is determined by online homework, recitation labs, two midterms and a final. Your final percentage (if higher) can replace the worse of your two midterms. Here is the point breakdown:  

- Homework - 70 (Multiply your average homework percentage by 70 and round up.)  
- Labs - 80 (Top eight of nine recitation labs worth 10 points each.)  
- Midterms - 100 each (Evenings January 25th and February 15th. Locations TBA.)  
- Final - 200 (Tuesday, March 15th, 7:30 - 9:20 AM)  

Grades will not be harder than:  
I do not use blackboard. A “keep track of my own grade” sheet is included at the end of this syllabus.  

Homework: Homework is online. See the instructions on the web, where there is also a list of suggested exercises from the text.  

Course ID: maisch59064  
Course Name: Math251Section38437MWF3PM  

Resources: The Math Learning Center is in Kidder 108H and is a great place to drop in for help. It is open from 9 AM to 4 PM, Monday through Friday, from the second week onward. I will be in there on Tuesdays.
Tests: Quiz dates and the midterm/final exam dates are on the tentative term schedule. You are allowed one 3x5 inch handwritten notecard for the midterm and for the final exam.

Labs: Labs can be found on the web. They are contained at the end of the study guide. Starting the second week you should work on one lab per week in numerical order. It is intended that you at least begin work on your lab during your recitation section. Your TA will decide on the specific due dates and late policies.

Specific Learning Outcomes:
1. Calculate average and instantaneous rates of change and identify instantaneous rates of change with derivatives.
2. Apply ideas of differential calculus to motion problems (velocity, speed, and acceleration)
3. Apply the algebraic limit laws and the standard rules of differentiation including the chain rule to calculate particular limits and derivatives.
4. Use methods of calculus to solve maximum and minimum problems.
5. Use methods of calculus to determine the shapes of curves.

Write down your scores!

(1) Lab 1 : ......out of 10
(2) Lab 2 : ......out of 10
(3) Lab 3 : ......out of 10
(4) Midterm 1 : ......out of 100
(5) Lab 4 : ......out of 10
(6) Lab 5 : ......out of 10
(7) Lab 6 : ......out of 10
(8) Midterm 2 : ......out of 100
(9) Lab 7 : ......out of 10
(10) Lab 8 : ......out of 10
(11) Lab 9 : ......out of 10
(12) Homework: ......out of 70
(13) Final: ......out of 200