Instructor: Filix Maisch  
e-mail: maischf@math.oregonstate.edu
Meetings: MW 12 - 1:20 PM, F 12 - 12:50 PM  
phone: 541-737-7127
Room: Heckart Lounge 208  
off. hours: MW 3 - 3:50 PM, TTh 2 - 2:50 PM, (Thursday in MLC - Kidder 108H)
Text: Calculus, Briggs and 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 to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS 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. PREREQS: MTH 112
Schedule: See web for tentative term schedule.
Evaluation: Your grade is determined by two midterms and a final as well as online homework. Here is the point breakdown:
bullet Homework - 50
bullet Midterms - 200 (100 each)
bullet Final - 150
Grades: 360 - 400 A/A-, 320 - 359 B+/B/B-, 280 - 319 C+/C/C-, 240 - 279 D, 0 - 239 F.
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 Thursdays.
Tests: Exam dates and the final exam date are on the tentative term schedule. Check the web. You are allowed one 3x5 inch handwritten notecard for each of the midterms and the final exam. No graphing calculators allowed on exams, but scientific calculators are allowed.
Homework: Homework is online. See the instructions on the web.
Course ID: maisch26794  
Course Name: Math251Section18120MWF12PM
Specific Learning Outcomes:

1. Demonstrate a conceptual understanding of elementary differential and integral calculus of polynomial, exponential, and logarithmic functions including definition of the derivative, differentiation rules, derivative tests for extrema, antiderivatives, integration by substitution, the Fundamental Theorem of Calculus, and area of a region bounded by two graphs.

2. Apply calculus in business, economics, and elementary physics including supply and demand functions, cost, revenue, and demand functions, marginal quantities, maximizing revenue and profit, minimizing cost, exponential growth and decay, compounded interest, consumer surplus and producer surplus, and velocity and acceleration.

3. Demonstrate an understanding of differential and integral calculus by the ability to perform accurate computations.

4. Demonstrate the ability to compose highly organized and logical process of problem solving.

5. Demonstrate the ability to communicate their observations of application to others in oral form.