Math 241 - 10284 - Calculus for Management and Social Science  
Syllabus - OSU - Fall 2010

Instructor: Filix Maisch  
e-mail: maischf@math.oregonstate.edu  
Meetings: MWF 2 - 2:50 PM  
Room: Gilfillian Auditorium  
Office: Kidder 332  
Office hours: MW 3 - 3:50 PM, TTh 2 - 2:50 PM, (Thursday in MLC - Kidder 108H)  
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: Elementary differential and integral calculus of polynomial, logarithmic, and exponential functions and their applications to business, management and social sciences. This 4 credit course meets for 3 hours of lecture per week, as well as 1 hour or recitation per week.  
Schedule: See web for tentative term schedule.  
Evaluation: Your grade is determined by two midterms and a final as well as online homework and labs. Here is the point breakdown:  
- Homework - 36  
- Labs - 36  
- Big Quiz - 60  
- Midterm - 100  
- Final - 120  
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 or quizzes, but scientific calculators are allowed.  
Homework: Homework is online. See the instructions on the web.  
Course ID: maisch29798  
Course Name: Math241Section10284MWF2PM
Labs: All labs are done in recitation. The first two labs are posted online. Once recitations starts you will get a cd with the labs, as well other useful files.

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.