Mendocino College

COURSE LEVEL STUDENT LEARNING OUTCOMES

Term Effective:	Spring (Semester)	2008 (Year)

Title: Calculus And Analytic Geometry I
(limit to 50 characters including spaces)

Course Number: MTH 210

Initiator: Roger Ahders

Date Submitted: 11/20/2007

Units Min: 5.00
Units Max: 5.00

If this is a variable unit course, then the relationship between units and any difference in expected SLO's should be explained.

Lecture Hours: 5.00 to 5.00

Lab Hours: 0.00 to 0.00

Activity Hours: 0.00 to 0.00

Student Learning Outcomes: *(Enter the SLO's in an outline format. Use the Ctrl + Tab keys to indent for subtopics.)*

- Understand the concept of limits and theorems concerning limits including L'Hopital's Rule.
- Understand the definition of the derivative of a function and its implication to finding slopes of functions and instantaneous rates of change.
- Distinguish and utilize the fundamental rules of differentiation on sums, products, quotients and compositions of functions.
- Apply derivatives to solve problems involving maxima and minima, curve sketching and related rates.
- Understand the concept of the definite integral as a Riemann sum, and how to evaluate them using the Fundamental Theorem of Calculus.

SIGNATURES / APPROVALS:

Instructor(s) _____ Signature _____ Date

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