A. Division ACADEMIC Date November 14, 1990

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Bay Tellon of Course MAN 250

MAT 125

Subject and Course Number

N. Texthook and Materials

to he Purchased by Students:

ess, Economics, Life en Publishing Company Barnett & Ziegler, Applied Mathematics For Busin Sciences, and Social Sciences, 3rd Edition, Dell

O Course Objectives:

hould be able to:

oer

Upon completion of this course, the student s

ry limits; understand the basis of derivatives; be able to tives of algebraic and transcendental functions (exp(x) and derivatives implicitly.

1. Compute elementa: calculate derivaln(x)); and find

functions by applying first and second desirective be able to locate the extrema of functions.

2. Sketch graphs of techniques; and

et est de la companya men milket loud do n'h me diminishing returns, and elasticity.

4. Undoraterd the elegistanci nesticiledes for parcial local varives land rouver simple tower variable problems to optimize demand and revenue functions.

P. Course content:

our longle continu, yi raditio chamger der verming minde transcript tangent lines; rules and techniques for differentiating; and graphs; second derivative; application to graphs optimization problems (2). First derivative

- rentials
 - anns All THESE GERAYS Optimization problems; curve sketching; diffe:

- tigasinia alika ing kanakan ka ther applications to the mathematics related rates; elasticity of demand; c of finance.
- l derivatives; graphical meaning of

4. Functions of several variables; partia partial derivatives: maximum/minimum r