MA 2300 MATHEMATICS FOR MANAGEMENT SYLLABUS

Thi i a one-q a e co e de igned for den in he Admini a i e Science departmen. The co e i di ided in o hee egmen: F nc ion and Algeba, Calc l of Single-a iable F nc ion, and Calc l of M li-a iable F nc ion.

Te: Brief Calculus and Its Applications by Goldstein, Lay, and Schneider, seventh edition, Prentice-Hall.

1. Functions and Algebra.

In he e: Chap e \(\)0, all ec ion, and Chap e \(\)1, ec ion 1.

Topic incl de: F nc ion and heid glaph; linead and q adda ic f nc ion; he algebia of f nc ion; ol ing eq a ion (incl ding fac oding and he q adda ic fodm la); e ponen and poled finc ion; glaphing finc ion, i hippecial a en ion of he glaph of daigh line; application of finc ion and heid glaph; and, he lope of a daigh line. Batic algebia kill ade de ie ed a needed.

S den ho need addi ional help in algebéa ma i h o pécha e an algebéa ée ie book. An of he follo ing o ld péo ide a good ée ie of ba ic algebéa kill: Forgotten Algebra b Baébaéa Lee Blea, Baééen' Ed ca ional Seéie, Inc.; Practical Algebra b Pe eé Selb and S e e Sla in, Second Edi ion, John Wile and Son, Inc.; oé, in he Scha m' Oa line Seéie, College Algebra.

2. Calculus of Single-variable Functions.

In he e: Chap e 1, ec ion 2 - 8; Chap e 2, all ec ion; Chap e 3, ec ion 1 and 2; Chap e 4, all ec ion; Chap e 5, ec ion 1 and 2; and, Chap e 6, ec ion 1-3.

Topic incl de: The defini ion of he de i a i e and ela ed opic (limi and con i-

A fe da a e alloca ed fo a q ick look a in eg a ion. The empha i i on ba ic an idiffe en ia ion (no pecial in eg a ion echniq e) and he in e p e a ion of he defini e in eg al a he ne change in he al e of a f nc ion o e an in e al.

3. Calculus of Multi-variable Functions

In he e: Chap $e \nmid 7$, ec ion 1-4.

Topic incl de: An in 'od c ion o m l i a tiable f nc ion; le el c 'e; finding pa 'ial de ti a i e, incl ding econd-o 'de ' and mi ed pa 'ial de ti a i e; in e 'p 'e a ion of a pa 'ial de ti a i e a a 'a e of change; 'ela i e e ' ema of f nc ion of o a tiable; and