$\mathcal{M}$ultivariable $\mathcal{C}$alculus

Week 3

Monday February 6 *Class 7*:

The Inverse Matrix A^{-1} and Methods of Computing the Determinant of a Matrix.

Reading:

Williamson & Trotter, (Chapter 2)

Homework #7: (due in *Class 8*)

Williamson & Trotter, page 86: **5**, 8, 11, **26**, 29 page 98: # 1, 2, 3,**4**, 21 **Extra Credit page 99: # 22, 40**

QUIZ #2 AND BONUS QUIZ #2 DUE

Wednesday February 8 *Class 8*:

Derivatives of a Vector Function of a Scalar variable

Reading:

Williamson & Trotter, (Section 4.1)

Homework #8: (due in *Class 9*)

Williamson & Trotter, page 182: # **2**, 3, 9, 13, 14, **17**

Friday February 10 *Class 9*:

Visualizing functions of several independent variables: understanding surface plots, contour plots, level sets.

Reading:

Williamson & Trotter, (Section 4.2)

Homework #9: (due in *Class 10*)

Williamson & Trotter, page 192: # 1, 4, **9, 10**, 18

QUIZ #3