

## ESE 502 Fall 2009; October 27

Class	Topics	Sections	Reading
8	TEST		

Homework:

1. Chapter 4: Problems 16, 17, 20, 21, and 22, pp. 119 – 120. (In problem 17, you can use the fact that, for an invertible matrix  $X(t)$ ,  $\frac{d}{dt}(X(t)^{-1}) = -X(t)^{-1} \left( \frac{d}{dt} X(t) \right) X(t)^{-1}$ )
2. Chapter 5: Problems 1, 2, 3, 4, and 6. p. 140.