Row Echelon Form, Rank, Consistency, General solution of $A\mathbf{x} = \mathbf{b}$.

2.2.1, 2.3.3, 2.5.1, 2.5.4

(You can use the matlab commands `rref(a)` and `a\b` to check your work.)

Linear Functions.

3.3.1, 3.3.4

Matrix Multiplication.

3.5.4, 3.5.6 (please use induction), 3.5.9, 3.6.2, 3.6.3, 3.6.5, 3.6.7, 3.6.11

Inverses.

3.7.2, 3.7.6, 3.7.8, 3.7.9

Sherman-Morrison formula, rank 1 matrices.

3.9.9, 3.9.10