• Vector spaces and subspaces
  ○ Suggested review: homework #2 problems 2, 4, and 6(a)-(b).
  ○ Suggested reading: lecture notes 1.1-1.2.

• Linear independence, span, bases, dimension.
  ○ Suggested review: homework #2 problems 3/5/7, homework #3 problems 4 and 5(a)-(b).
  ○ Suggested reading: lecture notes 1.3-1.5.3.

• Computing bases of vector spaces and subspaces
  ○ Suggested review: homework #3 problems 2-3.
  ○ Suggested reading: lecture notes 1.5.4.

• Linear transformations
  ○ Suggested review: homework #4 problems 2 and 3(i).
  ○ Suggested reading: lecture notes 2.1.

• Kernel and image, the nullity-rank theorem and its applications
  ○ Suggested review: homework #4 problems 3(ii)-(iii), 5.
  ○ Suggested reading: lecture notes 2.2.

• One-to-one and onto transformations, isomorphisms, and their properties
  ○ Suggested review: homework #4 problems 3(iv), 4, 6, and 7
  ○ Suggested reading: lecture notes 2.3.

• Matrices associated to linear transformations, rank and inverses.
  ○ Suggested review: homework #5 problems 2-4(c).
  ○ Suggested reading: lecture notes 2.4.1-2.4.4.

• Similarity and change of basis
  ○ Suggested review: homework #5 problems 4(d), 6, and 7.
  ○ Suggested reading: lecture notes 2.4.5.

• True/false and miscellaneous tidbits
  ○ Suggested review: homeworks #2-#5 problem 1