Some concepts you must know for the next test:
- Basic characteristics of the endocrine system
- Names (examples) of true endocrine glands, mixed (function) glands, other tissues that produce hormones.
- Two main chemical classes of hormones and their subclasses
  - source/derivation
  - water solubility
  - transport mechanisms
  - likelihood of transport bound to a protein
  - half-life or longevity
  - causes of changes in hormone concentration — degradation, excretion
  - location of receptors
  - action at their receptors
  - product(s) of their actions
- Specifics of the typical membrane receptor/G protein intracellular messaging system but not the names of individual enzymes.
- Specifics of the intracellular receptor/nuclear receptor and direct gene activation mechanism but not the chemistry of the DNA to mRNA conversion.
- Target cell specificity – why do some hormones only affect certain cells while others affect most cells.
- What is down regulation? How does a cell control down regulation? What is the effect of down regulation?
- What is up regulation? How does a cell control up regulation? What is the effect of up regulation?
- List the factors of cell activation.
- Diagram the hormonal control of hormonal release and the role of negative feedback. Considering using the hypothalamus-pituitary-thyroid example.
- Give examples of humoral and neural control over hormone release. Explain.

Some concepts you may have to learn on your own:
- Autocrine and paracrine substances.
- The glucocorticoids of the adrenal cortex.

NOTE: In lecture, if we do not cover a specific endocrine gland or tissue, the hormones it produces, and the actions of these hormones, then you will not be tested on this information on a LECTURE test. We have covered several endocrine glands in lab and information about them appears on your laboratory list of terms and you will be tested on them in the Laboratory.

Please study the endocrine glands/tissues, hormones, and actions before you enter BIO 2341 and your Health Careers Program.

Concepts not appearing on this test:
- Developmental aspects of the endocrine system.