**Human Anatomy & Physiology II**

**Exam #4 Study Guide**

**Endocrine System**

1. Be able to explain the transport mechanisms for water-soluble and lipid-soluble hormones.

2. Be able to explain the modes of action for water-soluble and lipid-soluble hormones.

3. Know how hormones are classified based on what cells they act on and their chemical nature.

4. Know the factors that affect target cell responsiveness paying close attention to the 3 hormone

 interactions.

5. Know all the glands and the hormones secreted by each. Know if the hormones are secreted

 by a specific region/cell within the gland.

6. Know the functions of the hormones given in class.

7. Be able to recognize the disorders that affect the system.

**Male Reproductive System**

1. Know the functions of the male reproductive system as a whole.

2. Be able to identify the main structures of the system and their functions/descriptions.

3. Know the definitions/descriptions of tunica albuginer, corpora cavernosa, corpus spongiosum,

 spermatogonia, and Sertoli cells.

4. Be able to recognize the steps of spermatogenesis.

5. Be able to define and explain causes/processes of erection, orgasm, and ejaculation.

6. Know the characteristics of semen and sperm.

7. Know the hormones that influence this system and what each does.

8. Be able to recognize the disorders that affect the system.

**Female Reproductive System**

1. Know the functions of the female reproductive system as a whole.

2. Be able to identify the main structures of the system and their functions/descriptions.

3. Know the 3 layers of both the uterus and vagina, and which type of tissue composes each.

4. Know the descriptions of fimbrae, infundibulum, tunica albuginea, and germinal epithelium.

5. Be able to recognize the steps of oogenesis and ovulation.

6. Be able to recognize the phases (and their descriptions) of the uterine and ovarian cycles.

7. Know the definition of menopause and its characteristics.

8. Know the hormones that influence this system and what each does.

9. Be able to recognize the characteristics & components of the mammary glands along with the

 function of those components (if given in lecture).

10. Be able to recognize the disorders that affect the system.

***This study guide covers the majority of information on the exam but not all of it. You are still responsible for any information that was covered in the notes but not put on this guide (intentionally or unintentionally). Good Luck and Study Hard!!***