**Human Anatomy & Physiology II**

**Final Exam Study Guide**

**Previous Material**

1. The final exam will include questions from Nutrition/Metabolism/Body Temperature, Urinary

System, Fluid/Electrolyte/Acid-Base Balance, Endocrine System, Male & Female Reproductive

System, as well as Embryology and Genetics (see below).

2. Focus on old exam questions. They will be the majority of the mid-term.

3. There will be a few new questions though so use the old study guides AFTER you’ve mastered old

exam material.

**Embryology**

1. Terms, Terms, Terms!!! Know the definitions/descriptions of the following terms: pregnancy,

conceptus, gestation period, pre-embryo, embryo, fetus, infant, fertilization, zygote, capacitation,

acrosomal reaction, morula, trophoblast, embryoblast, implantation, gastrulation, amnion, yolk sac,

allantois, chorion, ectoderm, endoderm, and mesoderm.

2. Be able to recognize the steps of fertilization, pre-embryonic development, implantation, placenta

formation, embryonic development, parturition, and lactation.

3. Know the four main vessels involved in fetal blood circulation and what type of blood (oxygenated

or deoxygenated) they carry along with where they are taking the blood to/from.

4. Know the main events of fetal development as given on the handout.

5. Know the stages of labor and the descriptions of each.

**Genetics**

1. Know the definitions/descriptions of the following: chromosome, homologous chromosome, autosome, sex chromosome, gene, allele, dominant allele, recessive allele, genotype, phenotype, homozygous dominant, homozygous recessive, heterozygous.

2. Know the basic ideas concerning different types of inheritance and the sexual sources of genetic variation.

3. Be able to use a Punnett square to calculate genetic probabilities for all examples covered in lecture.

***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!!***