

# **APBI 312 - ANIMAL PHYSIOLOGY II (2010)**

## **I. INSTRUCTOR**

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## **II COURSE DESCRIPTION:**

**This course is designed to study the organization, function, and regulation of various organ systems in the body that are of importance in animal production and wild life management. The reproductive, digestive, muscular, mammary and immune systems as well as growth, development, and effects of environment on animal production is discussed.**

## **III LEARNING OUTCOMES:**

**This course is designed to promote understanding of the basic Principles and concepts of physiology of organ systems and factors of importance in food animal production.**

**Students are expected to list major anatomical structures, relate them to functions and define the pathway of regulation for specific physiological processes in various organ systems of importance to food animal production.**

**More importantly, students must be able to draw on their conceptual understanding of physiology and integrate information from individual systems to analyze and explain the changes of a specific physiological process during different physiological states and new biotechnological developments affecting physiological processes.**

#### **IV SUBJECT MATTER:**

**Anatomy and physiology of the female reproductive system**

**Anatomy and Physiology of the male reproductive system**

**Anatomy and physiology of the digestive system**

**Anatomy and physiology of the mammary system**

**Anatomy and physiology of the muscular system**

**Physiology of growth, development, and manipulation of growth**

**The body's defenses against foreign matter**

**Stress and behavior physiology as applied to Animal Production**

#### **V TESTING AND COMPUTATION:**

**Quiz Exam every other week. Quiz can cover any lecture, reading, or laboratory materials ----- 10%**

**Laboratory Reports and Exam -----20%**

**Mid-Term Exam -----20%**

**Final Exam -----50%**

**TOTAL ----- 100%**