COMMON COURSE OUTLINE: Course discipline/number/title: EQSC 1103: Equine Anatomy, Physiology, and Disease Management

A. CATALOG DESCRIPTION
   1. Credits: 3
   2. Hours/Week: 3 hours lecture
   3. Prerequisites (Course discipline/number): 1100
   4. Co-requisites (Course discipline/number): None
   5. MnTC Goals (if any): NA

   This course provides an overview of equine anatomy, physiology and disease management. This course allows student to learn about biological aspects of the horse, relates anatomy and physiology to breeding and performance issues, and builds on the student’s knowledge of horse husbandry by providing in-depth information about health management, disease prevention, and parasite control. RECOMMENDED ENTRY SKILLS/KNOWLEDGE: High school diploma or GED, Grade of C or better in the following courses: EQSC 1100.

B. DATE LAST REVISED (Month, year): May, 2009

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Introduction to Anatomy & Physiology
   2. Skeletal system
   3. Muscular system
   4. Locomotion: joints, tendons, ligaments
   5. Respiratory System
   6. Sensory system
   7. Circulatory system
   8. Digestive system
   9. Urinary system
   10. Nervous system
   11. Endocrine system
   12. Reproductive system
   13. Identification of physical ailments
   14. Infectious diseases
   15. Metabolic and other diseases
   16. Vaccinations and record keeping
   17. Parasitism: types, life cycles, effective anthelmintics
   18. Parasite management programs

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Identify major anatomical structure of the horse.
   2. Understand the major physiological systems in the horse.
   3. Understand the basic concepts of equine exercise physiology.
   4. Describe common problems encountered in equine teeth.
   5. Identify good dental care practices in horses.
   6. Identify major muscle groups, tendons, ligaments, and their functions.
   7. Identify disease and physical ailments.
   8. Describe typical treatments for various diseases.
   9. Describe vaccination programs suitable for various types of horses.
   10. Identify types of parasites and their life cycles.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Reports, quizzes, tests
   2. Practical demonstrations
   3. Oral discussion and question and answer sessions
F. METHODS FOR EVALUATION OF STUDENT LEARNING: Continued.
   4. Group work or team projects
   5. Course assignments
   6. Essay tasks
   7. Attendance

G. SPECIAL INFORMATION (if any):
   Working with horses involves inherent risks which the student assumes while enrolled in the course. This course may include trips to nearby equine businesses, from which the student is expected to provide his or her own transportation.