COMMON COURSE OUTLINE: Course discipline/number/title: EQSC 1122: Horse Nutrition

A. CATALOG DESCRIPTION
   1. Credits: 3
   2. Hours/Week: 3 hours lecture
   3. Prerequisites (Course discipline/number): Completion of EQSC 1100 or EQSC 1101, or permission of the instructor.
   4. Co-requisites (Course discipline/number): None
   5. MnTC Goals (if any): NA

   This course includes fundamentals of equine nutrition, feed selection, digestive anatomy, ration formulation, toxic substances, and hay production. It builds on the basics of horse nutrition from EQSC 1101 and increases knowledge about how the digestive system works, how to balance a ration, and how to read a feed label. RECOMMENDED ENTRY SKILLS/KNOWLEDGE: High school diploma or GED.

B. DATE LAST REVISED (Month, year): May, 2007

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Nutrients
   2. Differentiation between feed types and uses
   3. Hay types, grasses, and hay analyses
   4. Pasture maintenance for quality hay and grass
   5. Factors affecting feed quality
   6. Digestive anatomy and physiology
   7. Ration formulation
   8. Feed processing methods
   9. Supplementation
   10. Feeding the malnourished and overweight horse
   11. Feeding broodmares, stallions, and growing horses
   12. Nutrition related diseases
   13. Ionophores
   14. Toxic substances

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Identify horse feeds, understand the nutritional composition, and use for each.
   2. Understand the role of various nutrients supplied and what happens when there is too little or too much of each.
   3. Understand digestive anatomy and physiology of the horse
   4. Identify methods for optimal growing, baling, storage, and analysis of hay
   5. Define the appropriate nutrient needs of various ages/athletes.
   6. Identify feed quality factors and their influence on value and nutritional input.
   7. Understand different processing methods and impact on feed quality.
   8. Calculate cost comparison and cost of rations.
   9. Use feeding tales and formulate rations appropriate for horses
   10. Identify role of supplementation, which feed additives and implants are used for various purposes.
   11. Identify nutrition related diseases in horses and how to prevent and manage them.

E. LEARNING OUTCOMES (MNTC): NA

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

G. SPECIAL INFORMATION (if any): None