1. **VEM 5041** – Contemporary Topics in Animal Welfare and Ethics  
   **Course Coordinator:** Dr. A. House  
   **Required Text(s):** Course notes, SAVMA  
   **Recommended Text(s):**  
   - *An Introduction to Veterinary Medical Ethics: Theory & Cases*, Bernard Rollin.  

2. **VEM 5111** – Animal Systems II (four courses)  
   **Course Coordinator:** Dr. C. Vulpe  
   **A. VEM 5111E** – Reproduction  
   **Course Coordinators:** Dr. M. Pozor  
   **Required Text(s):** Course notes, SAVMA  
   **B. VEM 5111F** – Musculoskeletal  
   **Course Coordinator:** Dr. L. Hayward  
   **Required Text(s):** Course notes, SAVMA  
   **Recommended Text(s):** *Berne and Levy Physiology*, Berne, Levy, Koeppen & Stanton, 6th ed. or 7th ed., Elsevier  
   **C. VEM 5111G** – Cardiovascular  
   **Course Coordinator:** Dr. L. Hayward  
   **Required Text(s):** Course notes, SAVMA  
   **Recommended Text(s):** *Berne and Levy Physiology*, Berne, Levy, Koeppen & Stanton, 6th ed. or 7th ed., Elsevier  
   **D. VEM 5111H** – Respiration  
   **Course Coordinator:** Dr. P. Davenport  
   **Required Text(s):** Course notes, SAVMA  
   **Recommended Text(s):** *Respiratory Physiology, the Essentials*, John West, 8th ed., by Lippincott  

3. **VEM 5112** – Animal Systems III (three courses)  
   **Course Coordinator:** Dr. C. Vulpe  
   **A. VEM 5112I** – Renal  
   **Course Coordinator:** Dr. D. Bolser  
   **Required Text(s):** Course notes, SAVMA  
   **B. VEM 5112J** – Digestion  
   **Course Coordinator:** Dr. D. Freeman  
   **Required Text(s):** Course Notes, SAVMA  
   **Recommended Text(s):**  
C. VEM5112K – Large Animal Anatomy
   Course Coordinator: Dr. R. Johnson
   Required Text(s): Course Notes, SAVMA
   Required Equipment:
   ▪ Dissection instruments: #4 scalpel handle (w/ #22 blades), large Mayo scissors, large rat-toothed forceps, large serrated or smooth forceps, hemostat, blunt probe.
   ▪ Laboratory apparel: Lab coat or Coveralls; sturdy shoes with non-skid soles; sturdy gloves (rubber gloves are ideal).

4. VEM5181 – Radiology
   Course Coordinator: Dr. R. Giglio
   Required Text(s):
   ▪ Course notes, SAVMA
   Recommended Text(s):

5. VEM5202 – Supervised Patient Care and Clinical Skills II
   Course Coordinator: Dr. A. Stone
   Required Text(s): Course Notes, SAVMA

6. VEM5220 – Basic Veterinary Nutrition
   Course Coordinator: Dr. R. Hill
   Required Text(s): Course Notes, SAVMA
   Recommended Text(s): Some* are available on line through the UF library
   ▪ Nutrient Requirements of Horses, National Academy Press, Washington DC (2007)*
   ▪ Nutrient Requirements of Dairy Cattle, National Academy Press, Washington DC (2001)*
   ▪ Harpers Illustrated Biochemistry*