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**
   
   - **VEM5111E – Reproduction**  
     Course Coordinators: **Dr. M. Pozor**  
     Required Text(s): Course notes, SAVMA  
   
   - **VEM5111F – 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
   
   - **VEM5111G – 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
   
   - **VEM5111H – 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**
   
   - **VEM5112I – Renal**  
     Course Coordinator: **Dr. D. Bolser**  
     Required Text(s): Course notes, SAVMA  
1. **VEM 5112J – Digestion**  
   Course Coordinator: Dr. D. Freeman  
   Required Text(s): Course Notes, SAVMA  
   Recommended Text(s):  

2. **VEM 5112K – 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).

3. **VEM 5181 – Radiology**  
   Course Coordinator: Dr. R. Giglio  
   Required Text(s):  
   - Course Notes, SAVMA  
   Recommended Text(s):  

4. **VEM 5202 – Supervised Patient Care and Clinical Skills II**  
   Course Coordinator: Dr. A. Stone  
   Recommended Text(s): *Essential Calculations for Veterinary Nurses and Technicians*, Author: T. Lake & N. Green (3rd ed.)
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  
   - *Harpers Illustrated Biochemistry*