Monday, March 21, 2005: Andrew J. Lonigro, M.D.
*Introduction to the Circulatory System: Hemodynamics-Derivation of Poiseuille’s Law*
**Required Reading:** Berne and Levy, Cardiovascular Physiology, 8th Edition, Mosby, Chapter 1 (pp1-6); chapter 5 (pp 115-134)
**Additional Source Material:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapter 14 (pp 144-151); Chapter 17 (pp 175-183); Chapter 19 (pp 195-209).

Tuesday, March 22, 2005: Andrew J. Lonigro, M.D.
*Determinants of Cardiac Output: The Frank-Starling Relationship*
**Required Reading:** Berne and Levy, Cardiovascular Physiology, 8th Edition, Mosby, Chapter 9 (pp199-226).
**Additional Source Material:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapter 20 & 21 (pp210 – 234).

Wednesday, March 23, 2005: Andrew J. Lonigro, M.D.
**Required Reading:** Berne and Levy, Cardiovascular Physiology, 8th Edition, Mosby, Chapter 8 (pp 175-197).
**Additional Source Material:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapters 17, 18, 19 (pp175 – 182; 184 – 191; 195 – 205).

Thursday, March 24, 2005: Andrew J. Lonigro, M.D.
*Introduction to Renal Function: Perfusion and Filtration*
**Required Reading:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapter 26 (pp279 – 294).

Monday, March 28, 2005 (First Hour): Andrew J. Lonigro, M.D.
*Tubular Function: Filtrate Reabsorption, Tubular Secretion, Excretion of Urine*
**Required Reading:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapter 27 (pp 295 – 312).

Monday, March 28, 2005 (Second Hour): Randy S. Sprague, M.D.
*The Regulation of pH: Physiologic Buffering Mechanisms*
**Required Reading:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapter 30 (pp 346-363).

Tuesday, March 29, 2005: Randy S. Sprague, M.D.
*The Pulmonary Circulation. Regulation of Pressure & The Intrapulmonary Distribution of Flow*
**Required Reading:** J. B. West, Respiratory Physiology, 6th Edition, Chapter 4, (pp29-44).
**Additional Source Material:** Guyton and Hall, Medical Physiology, 10th Edition, Saunders, Chapter 38, (pp 444-451).

Wednesday, March 30, 2005 (First Hour): Randy S. Sprague, M.D.
*The Respiratory Function of the Lungs: How Alveolar pO2 is Maintained; How Intrapulmonary Flow and Alveolar Ventilation are Matched.*
**Required Reading:** J. B. West, Respiratory Physiology, 6th Edition, Chapter 5, (pp 45-62)

Wednesday, March 30, 2005 (Second Hour): Randy S. Sprague, M.D. & Andrew J. Lonigro, M.D.