

**DENS 1542 PHYSIOLOGY II 2008
Spring Semester Schedule**

Course Coordinator: Ted Pate, Ph.D.; (X-4519; DBB 3.112H;
Theodore.D.Pate@uth.tmc.edu)

Times: Wednesdays – 8:00 – 9:50 am; Fridays – 9:00 – 9:50 am

Room: Lectures – DBB 340, unless otherwise noted
Exams - DBB 207, unless otherwise noted

The student will develop an understanding of the normal functions and systemic dysfunctions of the major systems of the body.

The student will develop the background necessary to become competent in preventing, managing and/or referring systemic derangements that may represent a potential medical emergency.

CARDIOVASCULAR SYSTEM Instructor: Dr. John C. McMahon	
WEEK	SESSION TOPICS / READING ASSIGNMENTS
1	W Jan 9 F Jan 11 The Impact of Cardiovascular Disease on Society and the Practice of Dentistry The Interplay of the Cardiac and Vascular Systems <i>read Monograph</i> Autonomic Influences on the Cardiovascular System <i>read Monograph</i>
2	W Jan 16 F Jan 18 8-8:50 am Electrical Activity of the Heart The Electrocardiogram <i>read Text pp 184-200 AND Monograph</i> The Cardiac Pump <i>read Text pp 201-213 AND Monograph</i>
3	W Jan 23 F Jan 25 8-8:50 am Control of the Heart <i>read Text pp 214-226</i> Hemodynamics and the Vascular System <i>read Text pp 227-245 AND Monograph</i> Microcirculation and Lymphatics <i>read Text pp 246-255 AND Monograph</i>
4	W Jan 30 8-8:50 am F Feb 1 8-9:50 am Cardiovascular Control Systems <i>read Text pp 256-275 AND Monograph</i> EXAMINATION 1 (two-hour exam) Room 207 (Phase I of Cardiovascular System)
5	W Feb 6 8-8:50 am F Feb 8 8-8:50 am Systemic Blood Flow: The Interplay of the Heart, Vasculature & Circulating Volume <i>read Text pp 275-299 AND Monograph</i> Cardiovascular Pathophysiology I: Dysrhythmias, Hypertension, & Heart Failure <i>read Monograph</i>

6	W Feb 13 F Feb 15	Cardiovascular Pathophysiology II: Atherosclerosis, Edema, Syncope, Stroke & Shock <i>read Monograph</i> Patient Evaluation: Integrating Patient History, Vital Signs & Evidence-Based Medicine <i>read/Review Monograph - ALL CASES</i>
7	W Feb 20 F Feb 22	CV Disease, Diagnosis, and Treatment, Part I CV Disease, Diagnosis, and Treatment, Part II
8	W Feb 27 8-9:50 am F Feb 29	EXAMINATION 2 (two-hour exam) Room 207 (Cardiovascular System Final Comprehensive Examination) Mechanical Aspects of Breathing <i>read required text pages 302-322 and Monograph</i>

RESPIRATORY SYSTEM Instructor: Dr. Ted D. Pate	
WEEK	SESSION TOPICS / READING ASSIGNMENTS
9	W Mar 5 F Mar 7 Pulmonary Circulation and Ventilation-Perfusion Distribution <i>read required text pages 323-333</i> Gas Transfer and Transport <i>read required text pages 334-342 and Monograph NO CLASS</i>
	Mar 10-14 <i>Spring Break</i>
10	W Mar 19 F Mar 21 Control of Breathing <i>read required text pages 343-352 and Monograph</i> Respiratory Insufficiency <i>read Monograph NO CLASS</i>
11	W Mar 26 F Mar 28 1-2:50 pm Pulmonary Function Testing and Lab/Demo; and Environmental Effects on Respiration <i>read required text pages and Monograph</i> EXAMINATION 3 (two hour exam) Room 207 (Respiratory System Examination)

RENAL SYSTEM Instructor: Dr. Ted D. Pate	
WEEK	SESSION TOPICS / READING ASSIGNMENTS
12	F Apr 4 9-10:50 am T Apr 8 10-10:50 am Elements of Renal Function <i>read required text pages 408-422 and Monograph</i> Solute and Water Transport Along the Nephron <i>read required text pages 423-433</i> Control of Body Fluid Volume and Osmolality <i>read required text pages 434-454 and Monograph</i>

13	W Apr 9 F Apr 11 Fluoride Ingestion & Excretion/Urinalysis/Factors Affecting Urine Output Presented by Dr. Max Hutchins <i>read Monograph</i> Potassium, Calcium and Phosphate Homeostasis <i>read required text pages 455-468</i>
14	M Apr 14 8-8:50 am T Apr 15 11-11:50 am W Apr 16 F Apr 18 Acid Base Balance <i>read required text pages 469-481 read Monograph</i> Review Session Examination 4 (two-hour exam) Room 207 (Renal System Examination) NO CLASS
15	W Apr 23 F Apr 25 Clinical Correlations Lab Group A: <i>Apocaca – Le, Giao</i> Room B81 Course Evaluation NO CLASS
16	W Apr 30 F May 2 1-2:50 pm Clinical Correlations Lab Group B: <i>Le, Man Nguyen – Wu</i> Room B81 Course Evaluation FINAL COMPREHENSIVE EXAM Room 207