

The University of Mississippi
School of Pharmacy
Department of Pharmacology
PHCL 341 Lab/PBL Component
Physiology and Pathophysiology
Spring 2003

Section 1: M 2 – 5 pm

Section 2: T 2 – 5 pm

Section 3: W 2 – 5 pm

Section 4: R 2 – 5 pm

Lab Director:

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304 Faser Hall

915 - 6720

Teaching Assistants:

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Required Textbooks:

Davis, N.M. (2001). Medical Abbreviations (10th Edition). Huntingdon Valley, PA: Neil M. Davis Associates.

Taber's Concise Medical Dictionary (19th Edition).

Fox, S.I. (1999). Human Physiology (7th Edition). Boston: McGraw-Hill.

Fox, S.I. (1999). Laboratory Guide – Human Physiology (9th Edition). Boston: McGraw-Hill.

Gyls, B.A. & Wedding, M.E. (1999). Medical Terminology: A Systems Approach. Philadelphia: F.A. Davis Company.

McCance, K.L. & Huether, S.E. (2002). Pathophysiology (4th Edition).

Suggested Supplemental Textbooks:

Kapit, W. & Elson, L.M. The Anatomy Coloring Book. Harper Collins.

Lab Evaluation:

Medical Terminology (10 @ 10 pts.)	100 points
Lab Assignments & Results (10 @ 10 pts.)	100 points (Due 1 week after lab)
Midterm Lab Practical Exam	50 points
Midterm Case Studies Exam	50 points
Final Lab Practical Exam	50 points
Final Case Studies Exams	50 points

Exams accounts for 60% of the lab points

Medical Terminology accounts for 25% of lab points

Lab Assignments & Results are 15% of lab points

Tentative Class Schedule (subject to change)

January 13

- Welcome Back
- Expectations and changes
- Syllabus & what's going on this semester

- Case Study – Congestive Heart Failure (CHF) - Available on Website

January 20

MLK Holiday (No lab this week)

January 27

(Lab #1)

- Medical Terminology – Chapter 10 (Blood)
 - Muscles of the pelvis (hip and butt)
- Lecture: Histology of Blood & Blood Typing
- Blood Lab
 - Hematocrit
 - Blood typing
 - Rh factor
 - Differential WBC
 - Blood cell histology
- Lab Reports
 - **6.1:** 1 - 10
 - **6.2:** (B) 1&2; 1 – 10
 - **6.3:** 1-8, 10
 - **6.4:** 1-9, 14
 - Values Reporting Sheet

- CHF Learning Issues

February 3

(Lab #2)

- Medical Terminology – Chapter 9 & 10 (Cardiovascular & Blood)
 - Muscles of the upper leg
- Lecture: Circulation and Principles of Blood Flow
- Sheep Heart Dissection
- Histology of Cardiac Muscle
- Lab Reports
 - **7.1:** 1 - 12

- ADAM Cardiovascular CD
- CHF Current Status

February 10

(Lab #3)

- Medical Terminology – Chapter 9 (Cardiovascular)
 - Muscles of the lower leg and foot
- Lecture: Blood Pressure Measurement (Do You Hear What I Hear?)
- BP, HR, EKG
- Lab Reports
 - **7.2:** 1 – 9, 11, 15
 - **7.5 (A):** 1 – 8, 10
 - **7.6:** 1 – 12

- ADAM Cardiovascular CD
- CHF Treatment

February 17

(Lab #4)

- Medical Terminology – Chapter 8 & 9 (Respiratory & Cardio)
 - Circulatory System (major veins & arteries)
- Lecture: Pulmonary function assessment (Heavy Breathing 101)
- Pulmonary Measures
- Sheep Heart & Lungs
- Lab Reports (Use online links for reports)
 - **8.1 (A&B):** 1 - 11
 - **8.4 (B&C):** 1 – 7, 10

- ADAM Cardiovascular CD
- ADAM Respiratory CD
- CHF Resolution

February 24

(Lab #5)

- Medical Terminology – Laboratory Measures
 - Heart & Lungs
- Lecture: Aerobic Exercise Adaptations – How much is enough?
- Physiological Response to Exercise
- GXT at Turner Center (for one lucky volunteer)
- Lab Reports (Use online links for reports)
 - **7.7:** 1 - 9
 - **8.2:** 1 – 8, 12

- ADAM Cardiovascular CD
- ADAM Respiratory CD

March 3

Midterm Practical and Case Studies Exams (day and time – TBA)

March 10

Spring Break

March 17

(Lab #6)

- Kidney Dissection Medical Terminology – Chapter 12 (Genitourinary)
 - Kidney & Urinary Tract
 - Lecture: Kidney Anatomy
 - Kidney Histology
 - Lab Reports (Use online links for reports)
 - **8.1 (A&B):** 1 - 11
 - **8.4 (B&C):** 1 – 7, 10
 - ADAM Urinary System CD
 - Case Study - Diabetes Mellitus Available on Web
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March 24

(Lab #7)

- Medical Terminology – Chapter 13 & 12 (Female Reproductive)
 - Reproductive System
 - Lecture: Kidney Anatomy- What Goes in Must Come Out
 - Urinalysis
 - Lab Reports (Use online links for reports)
 - **9.1:** 1 – 6, 9 - 10
 - **9.2:** 1 – 8, 10
 - **9.3:** 1-2; 1 – 7; 9 – 10
 - **Values Sheet**
 - ADAM Urinary CD
 - Diabetes Mellitus Learning Issues
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March 31

(Lab #8)

- Medical Terminology – Chapter 7 (Gastrointestinal)
 - GI Tract
- Lecture: Diet – Facts, Fads, & Food
- Digestion
- Nutrition
- Lab Reports
 - **10.1:** 1 - 9
 - **10.2:** (B&C): 1 – 6, 12
- ADAM Urinary System CD
- Diabetes Mellitus Current Status

April 7

(Lab #9)

- Medical Terminology – Chapter 6 (Integumentary)
 - Lymph and Immune
- Lecture: Fact & Fallacy - Measurements of Body Composition
- Nutrition
- Body Composition
- Lab Reports (Use online links for reports)
 - **10.3:** 1 – 7; 1 - 5; 8 - 10

- ADAM Urinary System CD
- Diabetes Treatment

April 14

(Lab #10)

- Medical Terminology – Chapter 14 (Endocrine)
 - Endocrine Glands
- Lecture:
- Endocrine
- Lab Reports (Use online links for reports)
 - **4.1:** 1 - 17
 - **4.2:** 1 – 7
 - **4.3:** 1 – 6; 9

- ADAM Urinary System CD
- Diabetes: 20 years later

April 21

(Lab # 11)

- Medical Terminology – Case Study Terminology
- Lecture: In Case of Emergency...
- Insulin Shock
- Lab Reports (Use online links for reports)

- ADAM Urinary System CD
- Diabetes: Case Resolution

April 28

Final Practical and Case Study Exams (day and time – TBA)

1. Announcements and other information regarding this course may be found on the course web page (www.olemiss.edu/courses/phcl342/ - Username: p3 Password: tablet). Please check this resource on a regular basis for updates and other information.
2. Most of the lab procedures and **ALL** of the lab assignments and results are available online this semester. Please look over the material before coming to lab. In addition, the lecture notes will be available online at some point in the semester.
3. Attendance is **mandatory** for the lab portion of this course. Quizzes, lab assignments and evaluations missed due to a failure on your part to attend lab without prior approval cannot be made up. Don't ask. In cases of extreme emergency, you may contest this point with Dr. Verlangieri (but you had better have proof). To avoid this situation, call or email me in advance so we can arrange for you to attend another lab session.
4. Attendance at your case study group is **mandatory** (i.e., not optional-you'd better show up). Case study groups are responsible for all information and learning issues presented. Just because someone did not do their part does not excuse you from learning and knowing the material they were responsible for. If this is a problem in your group, you need to contact Dr. Verlangieri or myself in order to help resolve this issue. We don't know this may be occurring if we are not made aware of it. To this extent, failure to attend case study will affect your grade. *Missing* your case study group without prior approval and knowledge will result in 2.5% deduction in your final lab grade for each incident. *Failing to complete and distribute* learning issues and information to members of your group will also result in a 2.5% deduction from your final lab grade for each incident as well.
5. Case Study Learning Issues must be emailed to Dr. Verlangieri AND Heather. These learning issues will be the basis for your exams.
6. Academic dishonesty will not be tolerated in this lab. Many of the exercises in lab are group efforts, but the medical terminology quizzes and exams ARE NOT "cooperate and graduate" opportunities. Please don't make this an issue that I have to deal with.
7. If you have any questions, concerns, complaints, or cookies come by the lab and let me have it. I can't fix the problem (or eat the cookies) if you don't talk to me.
8. Medical Terminology Chapters are listed in the syllabus. Those quizzes with two listed chapters will emphasize the first chapter listed, but may include related terms (because it is called the cardiorespiratory system). The diagrams for each quiz are listed below the chapter. Web page links & the models will be useful (and the models will be on the midterm & final), but do not forget you have many other resources for this information.
9. **AND (after grading your final exams) SPELLING COUNTS!!!**

The difference between the names of many dissimilar pharmaceutical agents is a couple letters. Besides I gave you a word bank and some of you still spelled things wrong!

EXTRA CREDIT:

Read it again – yes – it's true – you too could earn extra credit in this class. For the low, low price...oops – actually check the web page for further information on this. You may work alone or in small groups (no more than 4 – more than four names means no credit). These projects are due April 18 or any day prior to that. Project abstracts and group members need to be submitted to me for approval. Projects are worth up to 15 points – based upon on quality, originality, application. Questions – talk to me.