Welcome to BSC 1086 Lab
Human Anatomy and Physiology II

Spring 2009
Section 83317 Thursdays 2-4.30 pm DSCS 142

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Office hours*: Mondays 8.00-9.00 a.m.; 10.45-11.00 a.m.;
Tuesdays 8.00-9.30 a.m.; 12.45-1.45 p.m.;
Wednesdays 8.00-9.00 a.m.; 10.45-11.00 p.m.;
Thursdays 8.00-9.30 a.m.; 1.00-2.00 p.m.; 4.30-6.00 p.m.
* all in DSCS 112, except for MW 10.45-11.00 in DSCS 103

Communication: If you like to talk to me in a one-to-one setting I will be available during the posted office hours, however you should make an appointment with me so that I can prepare for you and you do not have to wait. The out of class communication in this course is going to be exclusively via Hawkmail (CampusCruiser); i.e. you must send me e-mail from within Hawkmail. If your e-mail does not include your name and course/section I will not respond to it. Notice also that I will respond as fast as I can, but that does not mean that you can expect return on the weekend or holidays or the same day.

Class Schedule:

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Quiz topics:
1: Vital Signs, Skin Flora, Hematocrit and Hemoglobin
2: Leukocytes, Body Fat Analysis, Cardiac Anatomy
3: Cardiac Conduction (EKG); Enzymes, Blood sugar
4: Lung Physiology and Pathology (Spirometry); Excretory System, Kidneys
5: Urinalysis; Microscopic Urinalysis
6: Fluid balance; Human Reproduction, Blood type genetics

Course Description
The lab complements the A&P II lecture. HCC-Dale Mabry offers a clinically oriented lab that emphasizes physiological and functional analysis and investigation. You will work in small groups and analyze real body fluids (i.e. blood and urine). You will be asked to think about and evaluate lab results.

Remark: This course together with BSC 1085 provides the foundation for an understanding of the human body. Most students taking this course plan a career in health care. To anyone planning to work in the health field this class will be the background to a deeper understanding about yourself and your patients. A patient’s life or health may depend on whether you know what you are doing. Additionally, this class will provide the necessary background for other professional courses that rely on anatomy and physiology. Therefore, learn as much as you can in this class. You will benefit from it. Also, I will keep a high standard for this class, considering the above.

Objectives: At the end of this course, the student will be able to:
1. recognize and describe functions of blood components.
2. identify anatomical features of the heart.
3. evaluate physiological activity of the cardiovascular system, such as blood pressure, pulse rate and ECG.
4. measure and evaluate urine characteristics.
5. analyze enzyme activity.
6. relate clinical measurements to determination of human physiological activity.
7. demonstrate proficient use of the compound light microscope.

Pre-Requirements for this course:
College level reading and writing, successfully completed BSC 1085 (A&P I) and current enrollment in or completion of BSC 1086 (the lecture part of this course).

Required Material:
1. Textbook: Anatomy & Physiology Lab Manual, authored by Bohm, Manis and Snyder. 3rd edition

Grades:
Your understanding of procedure and science background of the topics is assessed in the quizzes.
• There will be 6 short quizzes. Grades are based on the quizzes. Each quiz may yield 25 points; a total =150 points. **Grade determination is based on percent out of 150 points.** Note that being late or leaving early may result in a missed quiz. Each quiz will last a maximum of 25 minutes and will mainly but not exclusively contain questions pertaining to the previous labs. **It is in any case essential to come to each lab prepared!** I may assess preparedness by asking questions prior to the practical work.

• Any missed quiz is scored with “0” points. The quizzes consist of multiple choice, fill-in and short answer tasks. **Bring a green scantron sheet for your quiz.**

• I will post quiz results on Campus Cruiser.

• Quizzes are NOT returned to you but I will go over the correct answers in class.

• **Spelling counts!** (Countless patients have suffered harm from health personal misspelling or mixing up terms, units of measure etc...)

• There will be no extra bonus work beyond what is described in this syllabus. You are expected to master the material assigned in this outline. Usually my quizzes have bonuses built in!

• **Letter grades** are based on the calculated total percentage of achieved points and are assigned in the following manner:
  - A= > 90% (>135 points)
  - B=80-89.5%; (120 -134 points)
  - C=70-79.5%; (105-119 points)
  - D=60-69.5%; (90 -104 points)
  - F= less than 60%. (< 90 points)

**Lab-Safety:** At all times you are asked to follow the instructions given by the instructor. Follow the safety rules as handed out and discussed in the first meeting. If any procedure is unclear to you, ask the instructor before you proceed. Our A&P II lab involves the analysis of your own body fluids (blood and urine) and cells. Therefore every student must adhere strictly to lab safety rules and common precautions to prevent exposure to someone else’s fluids or cells. Behavior that endangers the safety of others or self will not be tolerated and will lead to an immediate exclusion from the lab. Note that you **must inform the instructor immediately if there is any damage to the equipment or injury to you. Absolutely no food or drinks in the lab, including chewing-gum.**

**Academic Dishonesty policy:** I expect honesty – academic and otherwise. If you have a problem, talk to me. I will try to help. I will not tolerate plagiarism or other types of cheating. If I catch you in such a case you will fail the class and additional disciplinary action will be initiated.
**Attendance:** Attendance in the laboratory is **essential and mandatory** since this is a **practical course**. Our departmental policy has been and is therefore that **more than two missed labs** – whether **excused or unexcused** – will result in an **“F” grade for the course**. Arrivals more than 15 minutes late or departures before the work is completely finished and the lab space has been cleaned may be recorded as an absence.

*The first introductory meeting does not count towards this rule.*

**Miscellaneous:**
- Do not count on being finished early! Most labs are estimated to last the allocated time.
- You are expected to leave the lab space and equipment as clean as possible.
- Cell phone ringers must be turned off during class. If you expect an urgent and important call set your phone on single beep mode or vibrating battery mode. Ringing phones pose a danger in lab – especially when students are just drawing blood for example or handle chemicals.
- You are responsible for taking notice of all announcements and changes, especially if you miss a class. Check Campus-Cruiser for this purpose or contact me.
- You are also responsible for adhering to college policy and rules. Refer to the student handbook if in doubt.

**Students with disabilities:**
Any student whose disabilities fall within American Disabilities Act (ADA) must inform the instructor at the beginning of the term of any special needs or equipment necessary to accomplish the requirements for this course. To arrange for special accommodations for individuals with disabilities contact the Office of Services for Students with Disabilities. The office is located in the Student Services Building Room 204 or call 813-259-6035.

**Instructional methods and successful learning:**
*Instruction:* Labs are primarily student activity times. There will be a more or less brief introduction into the topic with a focus on the technical aspects, occasionally a video with gross anatomy and cadaver dissection or interactive software will be utilized. **The lab environment allows for more questions and one - to – one interaction than a lecture. Make use of this opportunity.**