Syllabus
BSC 1085 Section 85862
Human Anatomy and Physiology I

Summer 2009
Section 85862 T/TH 8.00-10.50 in DSCS 103

Instructor: Dr. Peter Germroth, Office DSCS 112,
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e-mail: pgermroth@hawknet.hccfl.edu
Homepage: http://www.hccfl.edu/facultyinfo/pgermroth/

Office hours: by appointment
You may communicate via e-mail anytime. I will not respond on weekends.

Class Schedule:
This is a tentative schedule. It may change.

<table>
<thead>
<tr>
<th>#</th>
<th>Date</th>
<th>Topics and exams</th>
<th>Reading Assignments</th>
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<tbody>
<tr>
<td>1</td>
<td>5-12</td>
<td>Orientation, Introduction / Online Quiz</td>
<td>Get Ready for A&amp;P- assessment</td>
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<tr>
<td>2</td>
<td>5-14</td>
<td>The Human Body – an orientation</td>
<td>Ch. 1 and Get Ready: terminology; Body Basics</td>
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<td>3</td>
<td>5-19</td>
<td>Chemistry comes alive</td>
<td>Ch. 2; and Get Ready: Chemistry</td>
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<tr>
<td>4</td>
<td>5-21</td>
<td>Cell Biology (1) / Exam 1</td>
<td>Ch. 3; and Get Ready: Cell Biology</td>
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<td>5</td>
<td>5-26</td>
<td>Cell Biology (2)</td>
<td>Ch. 3; suggested reading: The Evolution of Disease</td>
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<td>6</td>
<td>5-28</td>
<td>The Integumentary System</td>
<td>Ch. 5; suggested reading: Skin Color</td>
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<td>7</td>
<td>6-2</td>
<td>Bones and Skeletal Tissues / Exam 2</td>
<td>Ch. 6</td>
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<td>8</td>
<td>6-4</td>
<td>Muscle Tissue</td>
<td>Ch. 9 suggested reading: Muscles, Genes &amp; Performance</td>
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<td>9</td>
<td>6-9</td>
<td>Fundamentals of Nervous System and Neural Tissue</td>
<td>Ch. 11</td>
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<tr>
<td>10</td>
<td>6-11</td>
<td>The CNS / Exam 3</td>
<td>Ch. 12; suggested: Excerpts from Oliver Sack’s writings</td>
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<td>11</td>
<td>6-16</td>
<td>The PNS and Reflexes</td>
<td>Ch 13; suggested: Podcast EST Therapy</td>
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<td>12</td>
<td>6-18</td>
<td>The ANS</td>
<td>Ch. 14 Gordon rule submission due by 11 pm.</td>
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<td>13</td>
<td>8-23</td>
<td>Sensory perception-Senses/ Exam 4</td>
<td>Ch. 16</td>
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Course Description:
Human Anatomy and Physiology is intended for Allied Health and Science majors. Course I (1085) encompasses both, anatomy and physiology of the human body. It includes cell structure and function and basic concepts of A&P. The focus of this course (A&P I) is on the basic concepts, cellular level, integumentary, muscular, and nervous systems.

Remark: This course together with BSC 1086 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 provide 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 maintain a high standard for this class, considering the above.

**Course Outcomes: Students will be able to**

1. recognize and understand anatomical and physiological terminology
2. apply the concept of homeostasis to human physiological activity.
3. Know major organic and inorganic chemicals as they relate to the human body.
4. describe cellular structure and cellular activity.
5. discuss anatomical and physiological features of the integumentary, skeletal, muscular, nervous and sensory systems.
6. evaluate select pathological conditions as they relate to normal functioning of the above-named systems.
7. prepare for the subsequent course (BSC 1086) by paying particular emphasis to general features of biochemical and cellular physiology, as well as neuronal integration of various body processes.

**Pre- and Co-Requirements for this course:**

College level reading and writing! Current enrollment in, or completion of BSC 1085L (the laboratory part of this course). Note that lab and lecture complement each other.

**Textbook:**

First preference:


Or (as the non-preferred option)


**Supplemental material**

1. For *Get Ready: Log in and register at MyA&P (free access with the Marieb text; or buy access online) and then join this class with class code cm340338
2. Additional reading in Campus Cruiser

**Exams:** There will be four regular class exams during the summer term. You will need green Scantron sheets and #2 pencils for the exams. There will be no make-ups whatsoever for any missed exams. If you miss an exam (for any reason) the 90% average of the other three exams will be recorded as your result.

**Grading:** The final total percentage will be calculated from:

- the exam scores (4*100 points= 400 points max)
- up to 30 bonus points for the completed Get Ready for A&P exercises
- up to 10 bonus points for an excellent Gordon-Rule assignment.
The maximum point score is 400 points. Letter grades are based on the final total percentage and are assigned in the following manner:

A=90-100%; B=80-89%; C=65-79%; D=60-64%; F= less than 60%.

400-360  359-320  319-280  279-240  < 240  POINTS

NOTE: all assignments to be submitted electronically via Campus Cruiser.

Register for free with your access code from Marieb/Hoehn 8th edition, and join this class with class code cm340338. Click on the Get Ready for A&P link and complete and submit the pretest and then work through the workbook. Submit the posttests to all 6 chapters prior to when that chapter is discussed in class. Submission is online within the website. For the on-time completed work you will receive up to 30 bonus points.

2. Gordon Rule Assignment: Your writing requirement will be fulfilled by submitting a paper on one of the suggested additional materials. Your submission will consist of a brief summary (in your own words!) plus a reflection/discussion of the content of the article or podcast. You can choose ANY one of the works in the shared files folder – subfolder SuggestedMaterial. This assignment is due by June 18th, latest.

Your written work will be evaluated by content and by writing skills (grammatical correctness, correct use of terms, logical sentence construction, proper use of paragraphs etc.) The evaluation for these assignments is, due to the very nature of assessing use of language, to some degree subjective. You will receive a pass or fail grade, and, if your submission is of high quality, some bonus points. Note: This class (BSC1085) cannot be passed without submitting a satisfactory Gordon Rule assignment. The paper must be submitted before the deadline or it is counted as “failed”. Any work that is not the genuine product of the student submitting it (for example a plagiarized paper) will receive a failing grade and lead to further disciplinary action. Note: If you use words, ideas or quote from any other source than the article you picked, you will have to reference that source or you paper may fail due to committed plagiarism.

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: Class attendance will be monitored because of scholarship issues. Your attendance record has no direct bearing on your grade. However, be advised that although regular attendance does not guarantee a successful result, it tends to be very helpful. There are numerous studies that show a strong correlation between attendance and success.

Miscellaneous:
- Cell phones must be turned off or silenced during class. If you expect an urgent and important call set your phone on single beep mode or vibrating battery mode.
- You are responsible for taking notice of all announcements and changes, especially if you miss a class. Check online 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:
• Arrangements can be made for students with learning disabilities if they provide me with documentation from an HCC LD advisor and see me in my office to discuss any special arrangements.
• Remember that you first need to contact the Office of Services to Students with Disabilities. They are located at DSTU 208, Tel 813-259-6035

**COURSE INSTRUCTIONAL MATERIAL - SUMMARY**

**Lecture:** My lectures will primarily consist of a presentation of the announced material, with the help of PowerPoint slides and other media. I will focus on major concepts, clinical examples and provide some degree of width and depth regarding the topic. You must engage the material after class via the textbook and diverse learning strategies! You are welcome to ask questions. I may ask questions too, engage you in a discussion or give you a brief in class task.

**Textbook:** Your main source of reference, review and learning. Use it or risk unsatisfactory results.

**Campus-Cruiser:** Lecture notes, supplemental reading, online submission and discussion, grade monitoring.

**My A&P:** Access to Get Ready for A&P

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<tr>
<th>Bonus quality</th>
<th>Passed</th>
<th>Failed</th>
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<tr>
<td>Standard grammar and spelling throughout = 3 pts</td>
<td>Mostly standard grammar and spelling.</td>
<td>Mostly poor grammar and frequent mispellings</td>
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<tr>
<td>Well organized with correct use of paragraphs and clear, logical subdivisions = 2 pts</td>
<td>Overall well organized with minor flaws.</td>
<td>Confusing organization, failure to separate summary from opinion etc.</td>
</tr>
<tr>
<td>Logical argumentation, clear expression of content, interesting to read = 2 pts</td>
<td>Main parts are communicated in a comprehensible way and the main arguments can be logically followed.</td>
<td>Argumentation and organization focus or irrelevant issues or are hard to discern.</td>
</tr>
<tr>
<td>Correct summary of source with major points clearly presented. = 3 pts</td>
<td>The essence of the source was captured.</td>
<td>The source material was not or only marginally understood</td>
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