Instructor:  Dr. Peter Germroth, Office HCC, Tampa, Florida, DSCS 112, Tel: 813-253-7278  
e-mail:  Online@hcc course email system  
Homepage:  http://www.hccfl.edu/facultyinfo/pgermroth/  

Office hours*:  Mondays 8.00-9.00 a.m.  
Tuesdays 11.00 a.m.-12.00 p.m.; 1-2 p.m.; 4.30-7.00 p.m.  
Wednesdays 8.00-9.00 a.m.  
* all in DSCS 112  

Online office hours:  Tuesdays 12.00-1.00 p.m. and Thursdays 7-9.30 p.m.  
Use Skype. A tutorial about how to set up a free Skype account and how to use Skype during office hours is available at the Online@HCC website of this course.  

Communication: Our means of communication will be Online@HCC. You should use the e-mail within the Online@HCC system. There is a direct login-link available from HCC’s main webpage. You may communicate via online@hcc e-mail anytime. I will not respond on weekends.  

If you are unclear about how to log in, view the college tutorial at:  
http://hccstreaming.hccfl.edu/pubpoint/eCampus/onlineHCC/Log-in.wmv
# Class Schedule:
This is a tentative schedule. It may change.

<table>
<thead>
<tr>
<th>Date / to be completed on</th>
<th>Topic</th>
<th>Assignments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 8/27/09</td>
<td><strong>Introduction to this course</strong>&lt;br&gt;In person meeting on Dale Mabry campus DHUM 220 6.00 pm</td>
<td>- For all topics read and work with the textbook chapters!!&lt;br&gt;- Watch the PowerPoints&lt;br&gt;- Get Ready – submit PostQuizzes&lt;br&gt;- Tests – submit before deadlines&lt;br&gt;- submit required IP exercise sheets&lt;br&gt;- comment of Podcasts&lt;br&gt;Don’t forget the Gordon Rule Paper</td>
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<tr>
<td>2 9-10</td>
<td><strong>Introduction to Anatomy&amp;Physiology</strong></td>
<td>- Get Ready Diagnostic Test&lt;br&gt;- Get Ready Study Skills Post Test&lt;br&gt;- Practice Quiz&lt;br&gt;- Intro to A&amp;P Video</td>
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<td>3 9-17</td>
<td><strong>Basic Concepts and Terminology:</strong> Scientific Method – Homeostasis – Organizational levels of life – Anatomical terminology</td>
<td>- Power Point&lt;br&gt;- Get Ready Terminology Post Quiz&lt;br&gt;- Get Ready Body Basics Post Quiz&lt;br&gt;- Test 1</td>
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<td>5 10-01</td>
<td><strong>Cell Biology:</strong> Organelles – functional organization – cell division – protein synthesis</td>
<td>- Power Point&lt;br&gt;- Get Ready Cell Biology Post Quiz&lt;br&gt;- Test 3&lt;br&gt;- Podcast: Cancer</td>
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<td>6 10-8</td>
<td><strong>Integument:</strong> epidermis-dermis- subdermis – glands – injury – burns - cancers</td>
<td>- PowerPoint&lt;br&gt;- Assigned reading in &quot;Extra Materials&quot;&lt;br&gt;- Test 4</td>
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<tr>
<td>7 10-15</td>
<td><strong>Bone Tissue:</strong> bone growth and modification, general anatomy of bone tissue</td>
<td>- PowerPoint&lt;br&gt;- Test 5</td>
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<tr>
<td>8 10-22</td>
<td><strong>Muscle Tissue:</strong> physiology of muscle contraction – muscle types and organization of skeletal muscle</td>
<td>- Interactive Physiology all exercises&lt;br&gt;- IP: NeuroMuscular Junction submit&lt;br&gt;- IP: Sliding Filament Theory submit&lt;br&gt;- Test 6&lt;br&gt;- Assigned reading</td>
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<tr>
<td>9 10-29</td>
<td><strong>Neural tissue:</strong> Organization of nervous system – resting and action potential – synapses and synaptic function – functional organization (inhibition – excitation – feedback loops)</td>
<td>- Interactive Physiology&lt;br&gt;- IP: Membrane Potential submit&lt;br&gt;- IP: Action Potential submit&lt;br&gt;- IP: Synaptic transmission submit&lt;br&gt;- Test 7&lt;br&gt;- Assigned reading in &quot;Extra Materials&quot;</td>
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<tr>
<td>10 11-05</td>
<td><strong>Spinal Cord:</strong> functional organization – spinal cord injury</td>
<td>- PowerPoint&lt;br&gt;- Test 8</td>
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<tr>
<td>11 11-12</td>
<td><strong>The brain:</strong> anatomy and functional relevance of all major parts – focus on diencephalon and limbic system – focus on cortex and cortical organization – higher functional issues: plasticity - lateralization – sleep - memory</td>
<td>- PowerPoint&lt;br&gt;- Test 9&lt;br&gt;- Podcast: EST&lt;br&gt;- Assigned reading in Extra Material”</td>
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<tr>
<td>12 11-19</td>
<td><strong>ANS:</strong> sympathetic and parasympathetic functional organization, transmitters and regulatory interaction</td>
<td>- PowerPoint&lt;br&gt;- Test 10</td>
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<tr>
<td>13 11-26</td>
<td><strong>Sensory perception:</strong> introduction of general senses and all special senses, focus on one special sense (optical and auditory)</td>
<td>- PowerPoint&lt;br&gt;- Test 11&lt;br&gt;- Podcast Habits&amp;Routines</td>
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<tr>
<td>14 12-01 6 pm</td>
<td><strong>FINAL EXAM – to be taken at Dale Mabry Campus, DSCS 142.</strong></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, integument, 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.

Computer literacy, which means you must be comfortable working on the internet, watching streaming downloads, using e-mail and working in a content management system like WebCT or Blackboard.

Required materials: NOTE- YOU HAVE CHOICES

1. Everyone needs to work with “Interactive Physiology”
2. Everyone should acquire and work with “Get Ready for A&P”. Note: this is included if you buy the book-package.
   Use this website for the assigned exercises (Get Ready), practice quizzes, animations and INTERACTIVE PHYSIOLOGY!
4. Everyone needs an A&P textbook. Specifics see below.
### Recommended primer and textbook

![Penguin Books](image1.png)

![HarperCollins](image2.png)

When you access MyA&P, use class ID cm645324 to join the class and to be able to easily submit bonus material (Get Ready quizzes)

<table>
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<tr>
<th>Buy the Marieb package at HCC and you have:</th>
<th>If you own another recent edition of either SALADIN's or MARTINI's A&amp;P textbook you may just purchase access to My A&amp;P without the e-textbook; get &quot;Get Ready for A&amp;P&quot;</th>
<th>If you own no textbook but prefer the cheaper online textbook (ebook) you need to</th>
</tr>
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<tbody>
<tr>
<td>FREE access to MyA&amp;P</td>
<td>This will include access to Interactive Physiology</td>
<td>Purchase access to My A&amp;P with the e-textbook option; buy the e-version of &quot;Get Ready for A&amp;P&quot;</td>
</tr>
<tr>
<td>Interactive Physiology</td>
<td></td>
<td>This will include access to Interactive Physiology</td>
</tr>
<tr>
<td>The package = Textbook, &quot;Get Ready for A&amp;P&quot;; MyA&amp;P access code; IP CDRom</td>
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**Syllabus DL-BSC 1085**  
**Dr. Germroth/ Fall Term 2009**  
**Page 4 of 7**
**Expected work during the term:**

1. Read every chapter topic in the textbook in the proper manner (refer to “Get Ready for A&P- How to read a textbook” if you are not clear what that means.
2. Watch all narrated Power Point lectures that are posted at Online@HCC.
3. Work through all Interactive Physiology interactive exercises for Muscles and Nerve cells.
4. For credit **submit:**
   a. All assigned tests on time
   b. The assigned IP exercise sheets on time
5. For credit also post comments on the podcasts and participate in online discussion.
6. Read extra material in the respective folder.
7. Prepare and submit the Gordon-Rule assignment.

6. **Gordon Rule Assignment:** Your writing requirement will be fulfilled by submitting a paper on one of the additional reading materials. Your submission will consist of a brief summary (in your own words!) plus a reflection/discussion of the content of the article. You can choose ANY one of the works in the “Extra Materials” folder. **Deadline is 11-15-2009.**

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. **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.

**Assessment and Grade Determination:**

All quizzes except the final exam, are to be taken in Online@HCC. The comprehensive final exam must be taken on an HCC campus and the time and place provided in this syllabus.

**Missing the final exam due to the flu or other grave circumstances:**
If you miss the final exam and can produce documentation attesting to sickness or other extenuating circumstances beyond your personal responsibility an alternate date/time and location will be provided to take the final exam on this campus under supervision.

**These are the items used for assessing your progress, knowledge, and level of comprehension:**

1. Online tests (11 total).
2. Podcast discussions and responses (3 total).
3. Interactive Physiology – exercise sheets answered and submitted (5 total)
4. Get Ready for A&P post-quizzes taken and submitted. (5 total)
5. A comprehensive final exam, which consists of 100 multiple choice questions. (You will need a green Scantron sheet and #2 pencil)

**Grading:** The grade will be calculated from:

- Multiple choice tests 11*40 points = 440 points
- Podcast responses 3*20 points = 60 points
- IP exercise submissions 5*20 points = 100 points
- Get Ready for A&P exercises 5*15 points = 75 points
- the final exam = 200 points
- Sum total = 875 points

**Grade determination will be out of 800 points!**

A=90-100%; B=80-89%; C=70-79%; D=60-69%; F= less than 60%.

(>720) (719-640) (639-560) (559-480) (less than 480)

**Help or technical issues:** If you require assistance with Online@HCC, please contact the HCC Help Desk at 813.253.7000 extension 4357 (Help) or use the link for help on the Online@HCC main page.

Questions regarding My A&P or Interactive Physiology need to be addressed by the publisher. The respective websites have help numbers and links listed.

If you have questions about the course assignments or other questions regarding the course content you need to contact your instructor.

**SmarThinking:** SmarThinking is a 24/7 online tutoring service to students at Hillsborough Community College providing online tutoring and increased access to quality learning tools. Students at the College only have a limited amount of time afforded to them through this service, so please use it judiciously. To login to SmarThinking go to: Smarthinking.hccfl.edu. You will use your HawkNet user id and password to access the tutoring.

**Privacy Statement:**
Students using online formats for study at HCC do so in a respectful, protected environment (intranet). However, this learning environment may at times be viewed by faculty (both current and those learning to become online facilitators), Distance Learning staff, and other experts, who are working with us to maintain the highest quality online courses. Please understand that this is not a secure, private environment.

**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.

**Miscellaneous:**
- There will be no extra bonus work etc. beyond what is described in this syllabus. You are expected to master the material assigned in this outline.

**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.

**Gordon-Rule Paper evaluation rubric:**

<table>
<thead>
<tr>
<th>Passed</th>
<th>Failed</th>
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<tbody>
<tr>
<td>Mostly standard grammar and spelling.</td>
<td>Mostly poor grammar and frequent misspellings</td>
</tr>
<tr>
<td>Overall well organized with minor flaws.</td>
<td>Confusing organization, failure to separate summary from opinion etc.</td>
</tr>
<tr>
<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>The essence of the source was captured.</td>
<td>The source material was not or only marginally understood</td>
</tr>
<tr>
<td>Commentary is at least beyond the obvious and original and demonstrates understanding of topic’s implications.</td>
<td>Commentary banal, generic or demonstrates failure to grasp topic’s implications.</td>
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**Saving resources:** In good environmental spirit, I insist on your papers and all contributions are being submitted electronically. No printouts will be accepted. Your Gordon rule paper and IP exercise sheets will be submitted in word (.doc or .docx) or in rtf format ONLY. No other formats accepted.