BI 301L – Human Anatomy & Physiology Lab – Summer 2015

Course Number: BI 301L
Course Title: Human Anatomy & Physiology Laboratory
Meeting Times: CLSB North Tower 2nd floor: 2N108A, 2N109
See Attached Schedule
Course Coordinator: Dr. Thomas V. Hancock (Ph.D.)
Campus Phone: 503-725-2311, email: thancock@pdx.edu


Laboratory Schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Lab</th>
<th>Textbook</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>22-Jun</td>
<td>Lab A</td>
<td>Atlas A, Chapter 8</td>
<td>Language of anatomy</td>
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<td>Anatomical regions</td>
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<td>Bone I: Vertebral column, rib cage</td>
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<td>2</td>
<td>23-Jun</td>
<td>Lab B</td>
<td>Chapter 8</td>
<td>Bone II: Pelvic girdle, leg bones, and shoulder girdle</td>
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<td>Microscopes: Introduction</td>
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<td>Cadaver Preview</td>
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<td>3</td>
<td>24-Jun</td>
<td>Lab C</td>
<td>Chapter 8; Chapter 6</td>
<td>Bone III: Arm bones, skull part 1.</td>
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<td>Integumentary System &amp; Histology</td>
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<td>4</td>
<td>25-Jun</td>
<td>Lab D</td>
<td>Chapter 10; Chapter 7</td>
<td>Bone IV: Skull part 2, hyoid bone, auditory ossicles</td>
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<td>Osseous Tissue &amp; Histology</td>
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<td>Muscle Preview</td>
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<tr>
<td>5</td>
<td>29-Jun</td>
<td>Review</td>
<td>Chapter 10; Chapter 11</td>
<td>Muscle I: Shoulder, arm, and torso</td>
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<td>6</td>
<td>30-Jun</td>
<td>Practical 1</td>
<td>Chapter 10; Chapter 11</td>
<td>Muscle I: Shoulder, arm, and torso</td>
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</tbody>
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Syllabus: Human Anatomy & Physiology Laboratory BI 301L, Summer 2014
Learning Goals and Skill Development:

- Learn formal anatomical terminology using proper spelling.
- Integumentary, skeletal, and skeletal muscle histology
  - Properly identifying histological features
  - Understanding the categories of tissues and where they are found
- Skeletal anatomy
  - Properly identifying the bone(s)
  - Properly indicating whether the bone is from the left or the right side (when applicable)
  - Proper identification of skeletal features and composite structures formed from several bones as well as the articulations between bones
- Muscular anatomy
  - Properly identifying the muscle(s) on a cadaver
  - Understanding the action of the muscle whether alone or in concert with other muscles
- Muscle Physiology
  - Understanding how muscle activity is monitored through electromyography (EMG), how and why muscle force varies, and how this variation is quantified

Grading Scheme: Lab scoring (40% of the entire course grade):

- 4 (of 5) quizzes, 25 points each (lowest quiz score dropped) 100 pts
- Practical 1 (labs A-D) 100 pts
- Practical 2 (labs E-G) 80 pts
- EMG Muscle Physiology Lab Exercise 20 pts
- Participation Points (7 labs x 3 pts per lab) 21 pts
  
  321 total points

Quizzes, exams and grades

- The daily quizzes will cover the material from the previous week.
- Quizzes will begin promptly at the beginning of the lab period. If you are late to quizzes or practicums, you will have only the time remaining in which to finish.
- Spelling counts, including proper use of singular/plural forms. 25% will be deducted from each question if misspelled with a maximum of 10% deduction from the entire quiz or practical.
- Any unavoidable event that requires lab quiz or practical accommodation should be scheduled within the first week of the course. Please arrange with Dr. Hancock and provide documentation.
- If you miss a quiz for any reason, it will automatically become your dropped quiz, which is why we allow a drop. If you document a medical event or emergency, you may be allowed to reschedule a second quiz if another documentable event occurs. In the event of a documented absence you may be able to schedule makeup time in the lab.
- If you miss a practical without prior arrangement or a documentable emergency, you will not be allowed to take the practical at another time. In no event will a practical be offered outside of the normal schedule,
but you may be allowed to take an incomplete in the course and complete the practical the next time the
course is offered.
• It is extremely beneficial to stay for the entire lab period. Attendance will be taken at the 2 hour point of
the lab and if you are present you will be awarded 3 points per lab (21 total points toward your lab grade).
Beyond the lab time, only scheduled open lab hours will allow you access to the materials outside your
normal lab hours.
• The TAs will do their best to answer your questions regarding lab, but if you have questions about your
professor’s lectures or exams, it is best to ask your lecture professor.

Accommodations:
If you need additional accommodations for this course, your lab instructor must receive all necessary
paperwork from the PSU Disability Resource Center within the first two days of the course. We strive to
facilitate all DRC-recognized accommodations and will work with you and the DRC to discuss any challenges
regarding scheduling limitations, safety concerns or facility logistics. Contact your TA/lab instructor as soon
as possible if you have any concerns regarding accommodations.

General lab policies and protocols
• Laboratory attendance is mandatory. More than two absences will result in automatic failure. If you are
more than 30 minutes late to the first lab you may be dropped from that section. You may seek to enroll in
a lab that is full by showing up and making that request to the teaching assistant and you may be added if
spots are available.
• PDF copies of the weekly lab presentations are available through D2L.
• We will be working with human cadavers throughout the course. They are fixed in phenol and
formaldehyde. Non-latex gloves and lab coats will be provided to you and are required for all cadaver
contact. Copies of relevant MSDS are available upon request.
• Observe all protocols posted regarding cadaver contact and handling. Failure to observe standards will
result in loss of participation points and/or disciplinary action. No guests are allowed anywhere in the lab
without specific permission from the lab instructor. Individuals under 18 years of age require special
permission to view cadavers.
• If you are a woman who is pregnant, nursing, or planning on becoming pregnant during this term,
please talk to your doctor about the effects of phenol exposure. You may want to take this course at
another time.
• Observe the posted dress code. Exposed skin below the shoulders is forbidden. No exceptions.
Inappropriately dressed individuals will be denied entry and will not be allowed to take exams. This
dress code is for your own protection, is required by law, and is also generally representative of
professional clinical settings.

Cell phones and photography
• NO CAMERAS WILL BE PERMITTED IN LAB. NO PHOTOGRAPHY/VIDEOGRAPHY IS
EVER ALLOWED IN THE ANATOMY LAB for reasons of privacy and to preserve the dignity
of the deceased.
• Most cell phones include photography functions. As such, cell phones are regarded as cameras and
CANNOT be used in the A & P lab, please exit the classroom if you need to make or accept a call.
Please turn off or silence your cell phones prior to entering the lab.
• Most tablets and laptops have cameras; you are required to put tape over the camera lens if you
utilize any of these devices in the laboratory.
• Due to the sensitive nature of the environment and need for professionalism, violations of these
standards will result in IMMEDIATE EXPULSION from the Anatomy Lab and formal disciplinary
actions will be taken.
Academic Honesty Statement:
Cheating or any kind of academic dishonesty will not be tolerated. Students caught cheating will, at a minimum, receive a zero on the assignment and be reported to the office of the Dean of Student Life at PSU. Additional consequences may result from this report according to University policies on academic dishonesty. Please review the student conduct code if you are unfamiliar with it at: http://www.pdx.edu/dos/psu-student-code-conduct

Lab Material:
There is no official textbook for the lab; your textbook from lecture (Saladin) contains most supporting information for the lab. Weekly handouts will be made available along with informative powerpoints that the teaching assistants use for instruction. These materials will be available no later than the Saturday before each lab begins.

Food and Drink:
Covered drinks or bottles may be kept in the designated areas of the lab and used there, away from the study tables. Eating in the lab is prohibited, please take a break and go outside the lab to eat.

Cleanup:
Students should maintain an orderly workspace at all times. Participation points can be deducted for failing to properly maintain the lab space.

Respect:
Students should recognize the need for due respect being displayed to the TA and their fellow students. Displays of inappropriate language, threats, aggression or violence of any sort will not be tolerated, will result in immediate removal from the classroom and be reported to the office of the Dean of Student Life.

NOTE: A lab course is not the same as a lecture course. The role of the TA is to assist and facilitate. Students are expected to take the initiative for their own learning. Classes will begin with a short presentation but the time spent directly interacting with the lab materials will provide the greatest benefit.