Course: BI 121, Introduction to Human Physiology, 04 cr, CRN 11706, 8:30-9:50 TR (100 WIL)+R Lab(111 HUE): 10:00-10:50 (CRN 11707) or 11:00-11:50 (CRN 11708) or 12:00-12:50 (CRN 11709) or 13:00-13:50 (CRN 11710) or 14:00-14:50 (CRN 11711) or 15:00-15:50 (CRN 11712) or 16:00-16:50 (CRN 11713) or 17:00-17:50 (CRN 11714), Fall 2012.

Website: [http://biology.uoregon.edu/classes/bi121f12/](http://biology.uoregon.edu/classes/bi121f12/)
Prior Websites: [http://biology.uoregon.edu/classes/bi121sum12/](http://biology.uoregon.edu/classes/bi121sum12/) (past summer, most recent & up-to-date) [http://biology.uoregon.edu/classes/bi121f11/](http://biology.uoregon.edu/classes/bi121f11/) (last fall, most synchronous)

Lecturer:Office;Hours;Phone;E-Mail: V. Pat Lombardi; 73A Klamath (KLA); 10:00-11:00 T + by appointment; 346-4536 (office/message); lombardi@uoregon.edu

Lab Instructor;Office;Hours;Phone;E-Mail: Michael Drummond; TBA; TBA; TBA; michaeld@uoregon.edu
Jennifer Finley; TBA; TBA; TBA; jjeffres@uoregon.edu;
Michelle Lu; TBA; TBA; TBA; mlu@uoregon.edu

Lab Preparator;Office;Hours;Phone;E-Mail: Holly Lynn;120D HUE; by appointment; 346-4651; hollylyn@uoregon.edu

Required Text & Lab Manual (available @ U of O Bookstore):


Supplemental Texts:
On-reserve in Science Library (2 hr non-circulating, please). Supplemental readings listed in brackets [ ] under Tentative Outline below:

+see many supplemental reserved texts/readings in Science Library or on web listing: [http://libweb.uoregon.edu/](http://libweb.uoregon.edu/) click Course Reserves tab, then type in Lombardi.

**Tentative Outline:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Topics</th>
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</thead>
<tbody>
<tr>
<td>Sep 25 (T)</td>
<td>Lecture 1</td>
<td>I. Introduction (outline, texts, labs, grading, expectations); Introduction to Human Physiology; Body Levels of Organization. II. Homeostasis. <strong>Readings:</strong> Introduction, Study Skills, pp v-viii; An Introduction to Structure and Function, Module 1, pp 1-8 (DC). [ch 1 vignette p 0; ch 1, pp 1-11 (LS).] (100 WIL).</td>
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<tr>
<td>Sep 27 (R)</td>
<td>Lecture 2</td>
<td>Connections: Homeostasis. Negative vs. Positive Feedback; Homeostatic Balance Examples; Simplified Homeostatic Model. II. Cell Anatomy, Physiology &amp; Compartmentalization: Size; Basic Survival Skills; Begin Organelles. <strong>Readings:</strong> [ch 1, pp 11-17; ch 2, pp 18-27 (LS).] (100 WIL).</td>
</tr>
<tr>
<td>Sep 27 (R)</td>
<td>Lab 1</td>
<td>Histology, Microscopic Study of Tissues. <strong>Readings:</strong> pp i-iii, 1-1 to 1-4 (LM) (111 HUE).</td>
</tr>
<tr>
<td>Oct 4 (R)</td>
<td>Lab 2</td>
<td>Introduction to Anatomy &amp; Physiology. <strong>Readings:</strong> pp 2-1 to 2-11 (LM) (111 HUE).</td>
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</tbody>
</table>
Oct 11 (R)  **Lab 3:** Diet Analyses. NB: Before the lab, please record your diet on p 3-7 (LM) and analyze it by using [http://www.choosemyplate.gov/supertracker-tools/supertracker.html](http://www.choosemyplate.gov/supertracker-tools/supertracker.html). In the lab, you’ll use your Diet Analysis+ software access to evaluate the same 1-d diet you evaluated with the above US government website. **Readings:** pp 3-1 to 3-16 (LM). (111 HUE).

Oct 16 (T)  **Lecture 7.** I. Circulatory: Cardiovascular & Lymphatic; Cardiac Physiology: Anatomy, Adult Heart & Fetal Blood Flow. **Readings:** The Circulatory System, Module 4, pp 25-9, 33-4 (DC). [ch 9, pp 228-34; ch 10, pp 281-7 (LS)].

Oct 18 (R)  **Lab 4:** Required Notebook Check. Monitoring Heart Rate & Blood Pressure. **Readings:** pp 4-1 to 4-13 (LM). (111 HUE).

Oct 23 (T)  **Midterm** (100 WIL + alternative exam sites assigned).

Oct 25 (R)  **Lecture 8.** I. What is a Heart Attack (AMI)? Stroke (CVA)? PVD? II. What Can I Do to Lower My Risk of Cardiovascular Diseases (CVDs)? III. Heart Rate & Blood Pressure? **Readings:** The Circulatory System, Module 4, pp 29-33 (DC). [ch 9, pp 252-9; ch 10, pp 260-70, 275, 287-95 (LS)].

Oct 25 (R)  **Lab 4: Required Notebook Check. Monitoring Heart Rate & Blood Pressure. High Blood Pressure at the Time of Diagnosis,** Time-Life Medical Films. **Readings:** pp 4-1 to 4-13 (LM). (111 HUE).


Oct 29 (R)  **Lab 4: Required Notebook Check. Monitoring Heart Rate & Blood Pressure. High Blood Pressure at the Time of Diagnosis,** Time-Life Medical Films. **Readings:** pp 4-1 to 4-13 (LM). (111 HUE).


Nov 8 (R)  **Lecture 13 (Lucky!!). :)** I. Action Potentials, Synapses & the Neuromuscular Junction. **Readings:** [ch 7, pp 187-193; ch 4, pp 70-88 (LS)].

Nov 8 (R)  **Lab 5: Blood Chemistry: Blood Glucose & Blood Typing.** **Readings:** Please reread pp 5-1 to 5-6 (LM) prior to the lab. Thanks sincerely! (111 HUE).


Nov 15 (R)  **Lecture 15.** I. Molecular Basis of Skeletal Muscle Contraction. II. Metabolism & Fiber Types. III. Skeletal Muscle Adaptations & Exercise Physiology. **Readings:** [ch 8, pp 198-204; 210-4 (LS)].

Nov 15 (R)  **Lab 6: Pulmonary Function Tests.** **Optional 2nd Notebook Check.** **Readings:** pp 6-1 to 6-8 (LM) (111 HUE).


Nov 22 (R)  Thanksgiving Holiday. No lecture or laboratory. Be safe & have a Happy Turkey Day!!

Nov 27 (T)  **Lecture 17.** I. Gas Exchange &Transport. II. Physiology of Cigarette Smoking. **Readings:** [ch 12 pp 362-73; pp 378-9 (LS)].

Nov 29 (R)  **Lecture 18.** I. Respiratory System (continued). II. Summary & Review for Final Exam. **Readings:** Review slides on our website @ [http://biology.uoregon.edu/classes/bi121f12/](http://biology.uoregon.edu/classes/bi121f12/).

Nov 29 (R)  **Final Exam, 8:00-10:00 (100 WIL).** NB: Start time 8:00 am! ☺...I Human Physiology even @ the crack of dawn!  

Grading: Lecture* (20%) & Laboratory *(20%) Attendance & Participation, Midterm (30%), Final (30%).  
*Required attendance & participation are essential components of your grade! ☺...& of your life! We ♥ Human Physiology!!!