Course:  Introduction to Human Physiology, BI 121, 04 cr (CRN 40251) 09:00-10:50 MTWR (30 PAC) + TR Lab (130 HUE): 12:00-12:50 (CRN 40252) or 13:00-13:50 (CRN 40253), Summer 2012.

Website:  http://biology.uoregon.edu/classes/bi121sum12/  
Prior Websites:  http://biology.uoregon.edu/classes/bi121sum11/ (last summer, most synchronous)  
http://biology.uoregon.edu/classes/bi121ff11/ (last fall, most recent & up-to-date)

Lecturer; Office; Hours; Phone; E-Mail:  V. Pat Lombardi; 73A Klamath (KLA); by appointment; 541-346-4536 (office/message); lombardi@uoregon.edu

Lab Assistants; Office; Hours; Phone; E-Mail:  Alexa Westerbeck; 130 HUE; TBA; 541-346-4536; alexaw@uoregon.edu  
Tony Yang; 130 HUE; TBA; 541-346-4536; anthonyy@uoregon.edu

Required Texts:  Sherwood, Lauralee (LS).  

Lombardi VP, Evonuk E & Carmack MA (LM).  

1st Reserve Texts: Supplemental readings listed in [ ] below:  
(Copies on reserve in Science Library, 2 hr reserve only).


Tentative Outline:

Jun 25 (M)  Lecture 1.  I. Introduction (outline, text, grading, expectations, etc.); Introduction to Human Physiology; Body Levels of Organization. II. Homeostasis.  
Readings: Dedication, Brief Contents, Contents, Preface, xxi-xxvi; ch 1 vignette p 0, ch 1 pp 1-17 (LS); [Module 1, pp 1-7 (DC).] (30 PAC).


Jun 27 (W)  Lab 1: Histology, Microscopic Study of Tissues, pp i-iii, 1-1 to 1-4 (LM) (130 HUE).


Jun 28 (R)  Lab 2: Introduction to Anatomy & Physiology.  
Readings: pp 2-1 to 2-9, C-1, C-2 (LLM) (130 HUE).

Jul  2 (M)  Lecture 5.  I. Connections: Nutrition Quackery. II. Hydrolysis, the Central Theme of Digestion. IV. Gut Anatomy, Histology & General Secretions.  


Jul  5 (R)  Lab 3: Diet Analyses w/SuperTracker. NB: Before the lab, please record your diet on p 3-7 (LM) & see  
Readings: pp 3-1 to 3-14 (LM). (130 HUE).
Jul 9 (M) **Lecture 8.** I. Circulatory: Cardiovascular & Lymphatic. II. Cardiac Physiology: Anatomy, Adult Heart & Fetal Blood Flow. **Readings:** ch 9, pp 228-34; ch 10, pp 281-7 (LS). [Module 4, pp 23-7 (DC)].


Jul 10 (T) **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). (130 HUE).


Jul 12 (R) **Lab 5: Blood Chemistry: Blood Glucose & Blood Typing.** **Readings:** Please reread pp 5-1 to 5-8 (LM) prior to the lab. Thanks sincerely! (130 HUE).

Jul 16 (M) **Lecture 12.** I. Muscle Physiology: Major Muscle Types; Structure of Skeletal Muscle. II. Molecular Basis of Skeletal Muscle Contraction. III. Metabolism & Fiber Types, Skeletal Muscle Adaptations. **Readings:** ch 8, pp 194-204; 210-4 (LS). [Module 12, pp 89-93 (DC)].

Jul 17 (T) **Lecture 13 (Lucky!) :)** I. Respiratory System: Structure & Histology. II. Gas Volumes & Capacities, III. Ventilation Mechanics & Control. IV. Gas Exchange & Transport. V. Physiology of Cigarette Smoking. **Readings:** The Respiratory System - ch 12, highlights of pp 344-79.[Module 7, pp 47-53 (DC).]

Jul 17 (T) **Lab 6: Pulmonary Function Tests.** **Optional 2nd Notebook Check.** **Readings:** pp 6-1 to 6-8 (LM). (130 HUE).

Jul 18 (W) **Lecture 14.** I. Open Discussion & Review for Final Exam. II. Final Exam (30 PAC).

Grading: Lecture Attendance & Participation*(20%), Midterm (30%), Final (30%), Lab Attendance & Participation*(20%).

*Required attendance & participation are essential components of your grade! 😊...& of your life! We ♥ Human Physiology!!!