Course: BI 358 Investigations in Medical Physiology, CRN 21782, 04 cr, Lecture: 8:30-9:50 TR 110 Willamette (WIL) + Discussion: CRN 21783 10:00-11:50 T or CRN 21784 12:00-13:50 T or CRN 21785 14:00-15:50 T, 129 Huestis (HUE), Winter 2019. Website: http://blogs.uoregon.edu/bi358/winter-2019/

Instructor: V. Pat Lombardi, 65A KLA, 541-346-6055, lombardi@uoregon.edu
Office Hr: M, 11:00 – 12:00, R 10:00 – 11:00 and by appointment.

Discussion Coordinators, Office Hr: Nelson Ugobor, TBA, nugobor@uoregon.edu
Courtney Zesbauagh, TBA, czesbau3@uoregon.edu


Bi 358, Investigations in Medical Physiology Discussion-Lecture Notebook (DLN), 2019. [Required]


See Course Reserve List http://libweb.uoregon.edu/course-reserves for additional excellent references. NB: To the left of Search Course Reserves, type in Lombardi, then login with your uoregon ID and password.

Tentative Outline:


Jan 15 (T)  Discussion 3: Quiz 1-covers Lectures 1, 2 & 3 & Discussion 2. Peer Review of Outlines. 4 copies of brief outline due + prior to Discussion, e-mail copy of outline to lombardi@uoregon.edu. Brief topic explanations within small groups. Peer review of outlines + feedback by e-mail to peers. Readings: DLN pp 3-1, 3-2.

Jan 17 (R)  Lecture 4: Gastrointestinal Anatomy & Physiology. Readings: G&H ch 63, 64 & 65, pp 797-832.

Jan 22 (T) Discussion 4: **NB:** Prior to lab, please record your diet for at least two full days so that you have personal data to conduct computer nutritional analyses. **Readings:** DLN pp 4-1 thru 4-22.

Jan 24 (R) **Lecture 6:** Blood + Immunology I: Blood Cells & Immunity, Overview of Innate vs. Acquired/Adaptive (Nonspecific vs. Specific) Immunity. **Readings:** G&H ch 33 & 34 pp 445-64; ch 36 pp 477-82.


Jan 31 (R) **Lecture 8:** Cardiovascular Physiology: Heart & Vessels Anatomy & Physiology, General Circulation, Coronary Circulation, Atherosclerosis, CABG & PTCA, Hypertension. **Readings:** G&H ch 9 pp 109-22; ch 14 pp 169-72; ch 15 pp 182-8; ch 16 pp 198-201; ch 21 pp 262-70; ch 69 pp 871-4 (Cholesterol).

Feb 5 (T) **Lecture 9:** Guest Lecture Series-Clinical: Kraig W. Jacobson, MD, Allergy & Asthma Associates, Eugene, OR. Allergy & Immunology. **Readings:** DLN pp D-1 thru D-14.

Feb 5 (T) **Discussion 6:** I. Peer Review of Papers. **4 hard copies of Paper Draft due & e-mail copy to Group Members + prior to Discussion, e-mail copy of Paper Draft to either czesbau3@uoregon.edu or nugobor@uoregon.edu** based on Discussion section. Small Group Discussions with project overviews + detailed feedback on papers by way of follow-up e-mails to each group member. II. Heart Dissection Lab. **Readings:** DLN p 6-1 and 6-2.

Feb 7 (R) **Lecture 10:** I. Introduction to Endocrinology, Pituitary Hormones & Control by the Hypothalamus. II. Peripheral Endocrine Organs. **Readings:** G&H ch 75 & 76 pp 925-50; ch 77 & 78 highlights pp 951-82.

Feb 12 (T) **Lecture 11:** Guest Lecture Series-Clinical: Richard C. Padgett, MD, Cardiology, Oregon Heart & Vascular Institute, Eugene, OR. Clinical Cardiology, Case Studies & Recent Advances. DLN pp E-1 thru E-12.

Feb 12 (T) **Discussion 7:** **Quiz 3** - Covers Lectures 6, 7 & 9 & Discussion 5 (Immunology). Feedback on Papers (continued). Additional Assignment: Case histories to prepare for Dr. Garrett. **Readings:** DLN pp 7-1 thru 7-3.

Feb 14 (R) **Lecture 12:** Reproductive Physiology: I. Female Reproductive Anatomy & Physiology: Ovarian & Menstrual Cycle, Birth Control Techniques. II. Male Reproductive Anatomy & Physiology. **Readings:** G&H ch 82 pp 1037-54; ch 83 pp 1064-9; ch 3 pp 41-3; ch 81 pp 1021-35.


Feb 19 (T) **Discussion 8:** Class Presentations I.

Feb 21 (R) **Lecture 14:** Guest Lecture Series-Clinical: Audrey P. Garrett, MD, MPH, Willamette Valley Cancer Institute & Research Center, Eugene, OR & Oregon Health & Science University, Portland, OR. HPV & Gynecologic Care of Women with Breast Cancer. **Readings:** DLN pp F-1 thru F-14.

Feb 26 (T) **Lecture 15:** Guest Lecture Series-Clinical: Paul F. Kaplan, MD, Oregon Health & Science University, Portland, OR & University Health Center & Department of Human Physiology, Eugene, OR. Polycystic Ovarian Syndrome & Assisted Reproductive Technologies. **Readings:** DLN pp G-1 thru G-7.

Feb 26 (T) **Discussion 9:** Class Presentations II.


Mar 5 (T) **Discussion 10: Class Presentations III.**


Mar 12 (T) **Discussion 11: Vision Lab with Eye Dissections. Readings**: DLN pp 11-1 thru 11-3.

Mar 14 (R) **Lecture 20: Quiz 6** covers Lectures 13, 16, 17, 18, 19 (110 WIL+ ?). Break. Thoughts on applying to graduate schools in medicine & allied health. Final comments by Pat.

Mar 19 (T) **Final Research Paper Due** no later than 5:00 pm in Pat Lombardi’s box in Main Biology Office (77 KLA).

**Grading:**
- Attendance & Participation, Feedback on Guest Lecturers (20%)
- Quizzes (40%)
- Class Presentation (20%)
- Research Paper (20%)