Course: BI 358 Investigations in Medical Physiology, CRN 21183, 04 cr, Lecture: 8:30-9:50 TR 110 Willamette (WIL) + Discussion: CRN 21184 10:00-11:50 T or CRN 21185 12:00-13:50 T or CRN 21186 14:00-15:50 T, 112 Huestis (HUE), Winter 2017. Website: http://blogs.uoregon.edu/bi358/winter-2017

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

Discussion Coordinators, Office Hr: Stacy Levichev-Connolly, 203 LISB, W, 10:00-11:00, aleviche@uoregon.edu
Conor O'Sullivan, 206 LISB, W, 11:00-12:00, conoro@uoregon.edu


BI 358, Investigations in Medical Physiology Discussion-Lecture Notebook (DLN), 2017. [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 17 (T) Lecture 3: Guest Lecture Series-Clinical: Douglas Bovee, MD, Addiction & Internal Medicine, Eugene, OR. Drugs of Addiction: A Survey of their Pharmacology & Pathophysiology. Readings: DLN pp B-1 thru B-10 + http://learn.genetics.utah.edu/content/addiction/mouse/

Jan 17 (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 24 (T)  Discussion 4: **NB:** Prior to this Discussion, please complete p 4-8 by recording at least one full day of your diet so that you have personal data to conduct the computer nutritional analyses. **Readings:** DLN pp 4-1 thru 4-24.


Feb 7 (T)  Lecture 9: 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 pp 951-82.

Feb 7 (T)  Discussion 6: 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 aleviche@uoregon.edu or conoro@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. **Reading:** DLN p 6-1.


Feb 14 (T)  Discussion 7: **Quiz 3** - Covers Lectures 6, 7 & 10 & 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 21 (T)  Discussion 8: Class Presentations I.

Feb 23 (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 28 (T)  Discussion 9: Class Presentations II.
Mar  2 (R)  **Lecture 16: Quiz 5 – NB:** Start time 8:00 am. Covers Lectures 9, 12, 14 & 15 & Discussion 7 Case Histories (Endocrinology, Reproduction & Cancer) (100 WIL + ?). **Guest Lecture Series - Clinical:** Deanna St. Germain, DO, Medical Director, Kids’ FIRST Center (Forensic Intervention Response & Support Team), Eugene, OR. Adverse Childhood Experiences: Impact on DNA & the Brain. **Readings:** DLN pp H-1 thru H-4.


Mar  7 (T)  **Discussion 10: Class Presentations III.**

Mar  9 (R)  **Lecture 18:** Eye I: Anatomy & Optics of Vision. II: Retinal Receptor & Neural Function. III: Central Neurophysiology of Vision. **Readings:** G&H ch 50, 51 pp 635-60; ch 52 pp 661-4.


Mar 14 (T)  **Discussion 11: Vision Lab with Eye Dissections. Readings:** DLN pp 11-1 thru 11-3.

Mar 16 (R)  **Lecture 20: Quiz 6** - covers Lectures 13, 16, 17, 18, 19 (100 WIL+ ?). Break. Thoughts on applying to graduate schools in medicine & allied health. Final comments by Pat.

Mar 21 (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%)