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 Zesbaugh, 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 this Discussion, please complete p 4-8 by recording at least two full days of your diet so that you have personal data to conduct the computer nutritional analyses. Readings: DLN pp 4-1 thru 4-24.


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 overview & detailed feedback on papers by way of follow-up e-mails to each group member. II. Heart Dissections. 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 19 (T) Discussion 8: Class Presentations I.


Feb 26 (T) Discussion 9: Class Presentations II.
Feb 28 (R)  **Lecture 16:** *Quiz 5 – NB:* Start time 8:00 am. Covers **Lectures 10, 12, 14 & 15 & Discussion 7 Case Histories** (Endocrinology, Reproduction & Cancer) (110 WIL + ?).  **Guest Lecture Series - Clinical:** Jenna M. Godfrey, MD, MSPH, Slocum Center for Orthopedics & Sports Medicine, Eugene, OR.  *Orthopedics, Sports Medicine & Clinical Case Studies in Pediatrics.*  **Readings:** DLN p H-1 + links.

Mar 5 (T)  **Lecture 17:** **Guest Lecture Series-Clinical:** Pilar Bradshaw, MD, Eugene Pediatric Associates, Eugene, OR.  *Pediatrics: Introduction & Cases.*  **Readings:** DLN pp H-3 thru H-8.

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

Mar 7 (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 12 (T)  **Lecture 19:** **Guest Lecture Series-Clinical:** Annette Chang Sims, MD, Oregon Eye Specialists, Drs. Fine, Hoffman & Sims, Ophthalmologists, Eugene, OR.  *Ophthalmology: The Medical & Surgical Treatment of Eye Diseases.*  **Readings:** I-1 thru I-6.

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%)