Course: BI 358 Investigations in Medical Physiology, CRN 21005, 04 cr, Lecture: 8:30-9:50 TR 110 Willamette (WIL) + Discussion: CRN 21006 10:00-11:50 T or CRN 21007 12:00-13:50 T or CRN 21008 14:00-15:50 T, 112 HUE (HUE), Winter 2015. Website: http://blogs.uoregon.edu/bi358/winter-2015/

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

Discussion Coordinators: Precious A. de Verteuil, TBA..., precious@uoregon.edu
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Office Hr: TBA


*BI 358, Investigations in Medical Physiology Discussion-Lecture Notebook* (DLN), 2015. [Required]


See Course Reserve List http://libweb.uoregon.edu/ for additional excellent references. NB: Beneath Library Materials to the lower left, click on the green Course Reserves link, then type in Lombardi, click on the Search Course Reserves tab and login with your uoregon ID and password.

Tentative Outline:


Jan 6 (T) **Discussions 1 & 2:** Introduction & Resources: Personal Information Cards; Guidelines for Research Paper & Presentation; Addiction Medicine Primer: Discussion + Mini-group Presentations on Common Drugs of Addiction: Alcohol, Cocaine, Heroin, Marijuana, Methamphetamine, Nicotine. **Readings:** DLN pp iv-x, 1-1, 1-2, 2-1 thru 2-66. **Additional Assignment:** Resources & Computer Search, Focus on Topics of Personal Interest to create paper outline due Jan 13 (T) (112 HUE + begin personal search outside of lab).


Jan 13 (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-9 + http://learn.genetics.utah.edu/content/addiction/mouse/

Jan 13 (T) **Discussion 3:** Quiz 1-covers Lectures 1, 2 & 3. 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 15 (R) **Lecture 4:** Gastrointestinal Anatomy & Physiology. **Readings:** G&H ch 62, 63 & 64, pp 753-88.

Jan 20 (T) **Lecture 5:** I. Digestion & Absorption. II. Nutrition & Disease Prevention. **Readings:** G&H ch 65 pp 789-805; + highlights of ch 71 pp 843-57; DLN pp C-1 thru C-15.
Jan 20 (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 3 (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 precious@uoregon.edu or aleesas@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 10 (T) Discussion 7: **Quiz 3** - Covers Lectures 6, 7 & 11 & Discussion 5 (Immunology). Feedback on Papers (continued). **Additional Assignment**: Case histories to prepare for Dr. Garrett. **Readings**: DLN pp8-1 thru 8-4.


Feb 17 (T) Discussion 8: Class Presentations I.


Feb 24 (T) Discussion 9: Class Presentations II.


Mar 3 (T) **Discussion 10: Class Presentations III.**


Mar 10 (T) **Discussion 11: Vision Lab with Eye Dissections. Readings**: DLN pp 11-1 thru 11-3.

Mar 12 (R) **Lecture 20: Quiz 6** - covers Lectures 16, 17, 18, 19 (110 WIL+ ?). Break. Thoughts on applying to graduate schools in medicine & allied health. Final comments by Pat.

Mar 17 (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%)