

week	Day - date	Activity/reading assignments (G21 & G20 refer to 21 <sup>st</sup> and 20 <sup>th</sup> editions of Ganong; M5 = 5 <sup>th</sup> ed Marieb)
1	<b>R</b> - 8/28	Course Intro & projects; respiration intro (Pulm Ftn). G21: 649-668 (G20: 625-643). M5: 835,844-847, 850-862
	<b>Lab</b>	R, 1-4. First steps: Get that project goin'! Put out ideas...Group up...design... write protocol
2	<b>T</b> -9/2	Pulmonary function 2: Same reading as 8/28
	<b>R</b> -9/4	Adult/child CPR, AED training/certification
	<b>Lab</b>	CPR training continued. Time for feedback on protocols & equipment ckout. Get ready to start collecting data!
3	<b>T</b> -9/9	Gas Transport Review (student led): G21: 669-674. M5: 862-867. Regln of Resp. G21: 675-684. M5: 867-873
	<b>R</b> -9/11	Exercise & altitude. <i>DRL 1</i> .
	<b>Lab</b>	<i>DRL 2, DRL 3</i> , then time for Projects! Get things going!
4	<b>T</b> -9/16	<b>EXAM 1</b> : Pulmonary Physiology
	<b>R</b> -9/18	E balance/metab: G21: 282-288. M5:962-995 GI anat & digest/absorptn (Ch 25): G21: 471-481. M5:888-937
	<b>Lab</b>	Time for projects! Collect data!
5	<b>T</b> -9/23	Digestion/absorption continued. Regulation of GI ftn (Ch 26) G21:483-516 (G20:464-493).
	<b>R</b> -9/25	GI regulation continued (Ch 26).
	<b>Lab</b>	Time for projects! Collect data!
6	<b>T</b> -9/30	Endocrine regulation of metabolism (Ch. 19). G21:336 – 356 (G20: 322-341).
	<b>R</b> -10/2	Wrap up GI. <i>DRL 4, DRL 5</i>
	<b>Lab</b>	<i>DRL 6</i> . Time for projects! Collect data!
7	<b>T</b> -10/7	<b>EXAM 2</b> : Digestion & metabolism
		<b>mid semester break! R, 10/9 – Sun, 10/12</b>
8	<b>T</b> -10/14	Renal anatomy & functions: filtration(Ch 38) G21:702-730. M5:(Ch 26)1003-1034
	<b>R</b> -10/16	GFR regulation. Ch 38 cont. Renal : sodium & water handling by kidney
	<b>Lab</b>	Time for projects! Collect data!
9	<b>T</b> -10/21	Finish GFR, and cover concentrated urine formation. Ch 38 cont.
	<b>R</b> -10/23	Renal regulation- role in BP. <i>DLR 7, DLR 8</i>
	<b>Lab</b>	Time to be done collecting data! Do stats & graphs. Rough draft of poster
10	<b>T</b> -10/28	Integrative phys & acid/base (Ch. 39). G21:733–742. M5:(Ch27)1041-1063
	<b>R</b> -10/30	<b>EXAM 3</b> : Renal phys
	<b>Lab</b>	<b>Last lab day to collect data &amp; talk with me</b> about spreadsheets & graphing
11	<b>T</b> -11/4	<i>Biostatistics</i> .
	<b>R</b> -11/6	<b>Poster Session- in class!</b>
	<b>Lab</b>	No lab- meet to incorporate feedback from poster session & start writing!!!!
12	<b>T</b> -11/11	No class- meet to work on writing!
	<b>R</b> -11/13	Adrenal Gland (Ch 21). G21:359–383. M5:630-636. The Pituitary gland (Ch 22). G21:399-413. M5:617-624
	<b>Lab</b>	Meet to work on writing & final stats/graphing changes.
13	<b>T</b> -11/18	<b>Deadline for initial manuscript submission.</b> Male repro syst (Ch23) G21:428-437. M5:1071-1086.
	<b>R</b> -11/20	Female repro syst (Ch23). G21:437-452. M5: 1086-1103 <i>DLR 9, DRL 10</i>
	<b>Lab</b>	<b>Manuscript Peer Reviews due half way through lab. Receive critique &amp; consider how to incorporate. Strategize!</b>
14		Thanks giving break all week! (Mon-Fri, 24 <sup>th</sup> – 28 <sup>th</sup> )
15	<b>T</b> -12/2	Pregnancy & parturition. G21:452-457 (G20:433-437). M5:Ch29
	<b>R</b> -12/4	Human development. G21:415-428 (G20:398-410). M5:Ch29
	<b>Lab</b>	<b>Final manuscript submission DUE</b>
16	<b>T</b> -12/9	Last class day. Course Evals. Party! <i>DRL 11; DRL 12, DLR 13</i>
17	<b>T</b> -12/16	FINAL EXAM DAY, 10:30 a.m. <b>Exam 4</b> : Endocrinology & Reproduction

# **Anatomy & Physiology of Metabolism & Endocrinology – Fall '03**

## **COURSE OBJECTIVES:**

- 1- To appreciate the mind-boggling miracle of a functioning vertebrate body
- 2- To be able to explain complex physiological mechanisms in writing and verbally
- 3- To learn anatomical terms, tissue histology, disease pathology and develop problem solving skills
- 4- To be able to read primary research articles and verbally explain/present the methods and major findings.

## **GRADES AND EXPECTATIONS:**

**Lecture Exams  $\cong$  50%** of total grade (4 lecture exams total). Exam format: multi choice + fill in the blank + short answer + essay + oral exam.

**Class participation & attitude  $\cong$  5%** of total grade.

**Disease Review Lecture  $\cong$  10 %** of total grade.

**Research Project  $\cong$  40%** of total grade.