

ANATOMY AND PHYSIOLOGY - BIOL 2114 Section 90
Night Lecture--Spring 2012

Instructor: Brad Martinsen, Ph.D.

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A & P website: <http://webs.anokaramsey.edu/biology/A&P/2114%20home.htm>

Office hours: M/W 4:30-5PM, 7:45-8PM, and 9:20pm-9:35pm

Lecture meeting time: M/W 6:30pm-7:45pm (S135 MC:10)

Required Textbook: Saladin, K.S. 2010. *Anatomy and physiology: the unity of form and function*, 5th ed. McGraw-Hill Co., New York, NY

Optional material: Mills, M. 2007. *Critical Thinking in Anatomy and Physiology 2, Biology 2114* (Saladin text)

Official communication: Your e-mail account registered in D2L (Desire to Learn) is considered the official method of communication in this course. Please check it once a day for any announcements.

General Course Goal/Major Concepts:

We will continue on our pursuit of the knowledge of the human body's structure and functions by focusing on circulatory, respiratory, digestive, urinary, and reproductive systems. We will be examining the normal functionings of the body, but will also explore what happens when the body does not function properly.

Prerequisite: Anatomy & Physiology I (BIOL2113) or equivalent - Grade "C" or better

Class activities:

Class time will be a mix of group activities geared toward self- and cooperative learning of simple material and lecture on more complex material. Students are expected to come to class having read the text reading noted in the schedule. There will be **7 online quizzes** based on reading material indicated in the class notes. You will also engage in small group discussions based on critical thinking questions in the class notes. Lab will include prepared dissections, dissection of selected organs, examination of anatomical models and microscopic slides, physiological experiments, and software exercises. Questions and student participation are expected during lecture and laboratory.

Grading:

Lecture grade is based on three lecture exams given during the lecture period and a comprehensive final exam given on **Mon, May 7th, 6:30-8:30pm**. Each quiz is worth 10 points. Each critical thinking exercise is worth 15 points. The grading opportunities in lecture are:

3 lecture exams @ 90 pts. each	270 pts.
Final exam (150 pts.)	150 pts.
7 Quizzes @ 10 pts.	70 pts.
4 small group discussion answers @ 15 pts.	60 pts.
Total	550 pts.

Your final grade will be the sum of your lecture and 0.8 of your lab grades (total = 814 points) and the letter grade will be determined by the following percentage criteria:

90-100% = A	> 732.5 pts.	60-69% = D	488-569.5 pts.
80-89% = B	651-732 pts.	< 60% = F	< 488 pts.
70-79% = C	570-650.5 pts.		

Borderline grades, e.g. percentages between 89-90%, will be elevated to the next higher grade **only** if the student has demonstrated effort in the class and had at least one exam with a grade value in the higher grade. Demonstration of effort includes attendance in lecture and lab, handing in assignments on time, and perceived participation in group activities. Decisions of taking this course Pass/Fail must be made in the first 2 weeks.

Attendance and Absences: *"Eighty percent of success is showing up."* Woody Allen
Attendance is expected in lecture and may be taken at the beginning of each class period. You are responsible for all material presented in lecture and lab, including announcements, if you are tardy. Make-up exams will be given only if a valid excuse is provided. Valid excuses include religious holiday, sickness, a court appearance, a death in the family, or direct participation in a school-sponsored activity. I reserve the right to ask for documentation for the excuse. **You must contact me prior to your absence, if you want to make up the missed exam, quiz or assignment.** If you can not reach me, leave a message with my voice mail or secretary, or send an e-mail. Make-up exams will be taken no later than one week after the original exam date. Late lecture and lab assignments will result in 10% decrease in the total points for every school day that the assignment is late and will not be accepted more than five school days after the assignment was due. An unexcused absence from a lecture exam, lab practical, or quiz will result in a zero grade.

Academic honesty - An exam or assignment which was conducted under dishonest behaviors, e.g., cheating or plagiarism, will result in no credit for that exam or assignment. If you knowingly allow someone to copy an exam or non-group assignment you will receive no credit for the exam or assignment. Exchange of information is allowed for group work, but all written material for credit should be in your own words or properly acknowledged. Any subsequent act of academic dishonesty will automatically result in an "F" in the course. All incidents of academic dishonesty are reported to the Deans of Students Services.

Accommodations - Any disability accommodations should be discussed with the Director of Access Services (433-1334). Religious accommodations should be discussed with the professor at the beginning of the semester.

Classroom Civility – Students are expected to behave in a respectful manner in lecture, including but not limited to coming to class on time, not leaving early, turning off cell phones, not talking when professor or other people are addressing the entire class, not coming to class under the influence of alcohol or drugs, dressing respectfully, etc.

Anatomy and Physiology II Lecture Schedule

Wk	Date	Lecture topic	Text pages
1	1/9-1/11	Introduction, Blood: composition, hemopoiesis, hemolysis, hemostasis	683-718
2	1/16-1/18	Holiday—No Lecture-Monday Heart: anatomy & blood flow, electrical activity	719-738
3	1/23-1/25	Heart: cardiac cycle & cardiac output, Quiz 1 Blood vessels: anat & histology, Critical thinking 1	739-754 755-764
4	1/30-2/1	Blood vessels: blood pressure & flow Capillary exchange Fetal circulation , Quiz 2	764-771 771-774 1129 -1131
5	2/6-2/8	Lecture Exam I Lymphatic organs	816-828
6	2/13-2/15	Nonspecific body defenses Immunity components	829-837 837-841
7	2/20-2/22	No Class—Holiday No Class--FD	
8	2/27-2/29	Cellular immunity, Critical Thinking 2 Humoral immunity & Immune system disorders, Quiz 3	841-844 844-855
9	3/5-3/7	Lecture Exam II Respiratory system: anatomy & ventilation	864-885
	3/12-3/16	SPRING BREAK—No Lecture SPRING BREAK—No Lecture	
10	3/19-3/21	Respiratory system: gas exchange & gas transport Respiratory disorders, Quiz 4	886-896 896-898
11	3/26-3/28	Urinary system function & anatomy Urine formation Fluid homeostasis, Critical Thinking 3, Quiz 5	906-924 925-929 943-960
12	4/2-4/4	Lecture Exam III Digestive system: anatomy & physiology	966-995
13	4/9-4/11	Digestion & Absorption Large Intestine, Quiz 6	996-1001 1001-1005
14	4/16-4/18	Sex determination & Male reproductive system Spermatogenesis, Critical Thinking 4	1048-1062 1063-1067
15	4/23-4/25	Female reproductive system Oogenesis, Quiz 7	1078-1087 1089-1097
16	4/30-5/2	Human Embryology Human Embryology	Chapter 29
17	5/7	Final Exam: MON, 6:30-8:30pm in S135	

Schedule is tentative and any deviations will be announced in class.

Last day to withdraw from class is **April 18, 2012**

GRADE RECORD AND CALCULATION FOR LECTURE & LAB

Exam or assignment	Possible Pts. (PP)	Earned Pts. (EP)	Cumulative PP (CPP)	Cumulative EP (CEP)	Current % (CEP/CPP)
Blood pathology	10 x 0.8		8		
Blood genetics	10 x 0.8		16		
Hematology report	10 x 0.8		24		
Critical thinking 1	15		39		
Lab Exam I	25 x 0.8		59		
Quiz 1	10		69		
Lecture Exam I	90		159		
ECG	10 x 0.8		167		
Lab Exam II /PLQ1	25/5 x .8	/	191		
Quiz 2	10		201		
Lab Exam III /PLQ2	25/5 x .8	/	225		
Critical Thinking 2	15		240		
Lab Exam IV / PLQ3	25/5 x .8	/	264		
Lecture Exam II	90		354		
Resp. Physio-Ex	10 x 0.8		362		
Quiz 3	10		372		
Lab Exam V / PLQ4	25/5 x .8	/	396		
Quiz 4	10		406		
Critical Thinking 3	15		421		
Renal Physio-Ex	10 x 0.8		429		
Urinalysis report	10 x 0.8		437		
Acid-base balance	20 x 0.8		453		
Quiz 5	10		463		
Lab Exam VI / PLQ5	25/5 x .8	/	487		
Lecture Exam III	90		577		
Lab Exam VII / PLQ6	25/5 x .8		601		
Quiz 6	10		611		
Lab Exam VIII / PLQ7	25/5 x .8	/	635		
Repro cycle	10 x 0.8		643		
Critical Thinking 4	15		658		
Lab Exam IX / PLQ8	25/5 x .8	/	682		
Quiz 7	10		692		
Drop handout	-10 x 0.8		684		
Drop lab exam	-25 x 0.8		664		
Final Exam	150		814		