

***ANATOMY AND PHYSIOLOGY - BIOL 2114 Sections 91 and 92
Night Lab--Spring 2012***

Instructors	Office	Phone	Office Hours	Sections taught
Brad Martinsen	S101	422-6076	M/W 4:43-5PM, 7:45-8PM, and 9:20pm-9:35pm	M/W 5PM-6:20PM; M/W 8PM-9:20PM
Marc Robichaud	S101	433-1747	TBD	W/Th 11AM
Margaret Guiney	S101	433-1199	TBD	F 11AM
Joan McKearnan	S108	1232	M-Th 11am-12pm, T 2-3pm	Th 2 pm
Julie Readinger	S101	TBD	TBD	F 8 am

E-mails are in the following format: *firstname.lastname@anokaramsey.edu*

Lab Website: <https://anokaramsey.ims.mnscu.edu/d2l/>

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

Required material:

Saladin, K. S. 2011. *Anatomy & Physiology: the unity of form and function, 6th ed.* McGraw-Hill, Boston.

Eder, D.J., S.L. Kaminsky, and J.W. Bertram. 2009. *Laboratory Atlas of Anatomy and Physiology, 6th ed.* McGraw-Hill, Boston

Stabler, T. and P. Zao, *Physio-Ex 9.0 Laboratory Simulations in Physiology.* Benjamin Cummings, San Francisco.

Biology Department. *Anatomy and Physiology II: Laboratory Manual for Biology 2114 at Anoka-Ramsey Community College*

Anatomy & Physiology Revealed CD/online access. McGraw-Hill, Boston.

Optional material:

- DK Publishing. 1991. *Visual Dictionary of the Human Body.* DK Publishing, London
- Kapit, W., and L. M. Elson. 2002. *Anatomy Coloring Book.* Benjamin Cummings, San Francisco.
- Krieger, P. A. 2009. *A Visual Analogy Guide to Human Anatomy.* Morton Publishing Co., Englewood, CO

Grading:

Pre-lab quizzes:

- Before each lab unit, you will take a **5 pt online prelab quiz** (PLQ) administered via Desire To Learn (D2L). You are expected to review the material in the unit and take the quiz before lab (you will not be allowed to take the quiz after lab). Revealing questions or answers to the quiz to classmates constitutes as cheating and if a student is caught cheating, the student will receive a zero (0%) grade for the entire unit as well as be subject to disciplinary action by the Dean. .
- The **8 prelab quizzes** will be administered through the Desire Two Learn (D2L) website: <https://anokaramsey.ims.mnscu.edu/>

- Click on BIOL 2114-XX (XX = your lab section) to access your lab section.
- Username: Student Tech ID, Password: birth date (YYMMDD) or last 6 numbers of your Social Security number if birth date does not work. Please change your password!
- Each quiz will have 5 questions (1 point possible per question) last 5 minutes and you will have two attempts (you can take the quiz twice). Your highest score will be recorded.
- Please check the syllabus for quiz due dates. **Once you login to take the quiz you will only have 5 minutes to complete the quiz.** Also, please be sure to check the course home page for any announcements. There is one practice quiz on the first unit that does not count for credit.

Lab exams:

- In lab, exams will be given as lab practicals with questions at several stations. Students roam around to each station and answer the questions presented there. Rules for practical exams will be given before your first exam.
- There are nine 25-point exams given throughout the semester.
- You will be allowed to drop one lab exam.

Additional Assignments:

- There will be nine activities conducted during lab that require turning in as a **handout**. You will be allowed to drop one 10-pt. handout.
- Some activities are group activities in which the groups turn in a joint assignment. Each student is expected to contribute equally to the assignment (see pg. iii in lab supplement). Individual assignments are expected to be in your own words.

Grade points:

Prelab quizzes – 8 @ 5 pts.	40 pts.
Lab exams - 8 (9-1 drop) @ 25 pts.	200 pts.
Acid-base assignment	20 pts.
<u>Handouts 7 (8-1 drop) @ 10 pts.</u>	<u>70 pts.</u>
Total	330 pts.

Attendance Policy

Attendance is expected of all students for all labs. Material is presented in lab that can not easily be replicated. Lab exams and most lab activities cannot be made up. Switching to another lab is allowed only once a semester with your lab instructor's approval, and needs to be arranged with both your lab instructor and the instructor of the section you'll attend in advance. There is a limit on how many students can attend a lab and there is no guarantee there will be space available for you. It also advised that you contact your own instructor of any absences. You are responsible for any information you missed during an absence or tardiness.

Academic Dishonesty

Plagiarism and cheating will not be tolerated in lab and will result in a **zero grade** for any handout or lab practical where academic dishonesty is discovered and, the individual will be subject to sanctions outlined in the Student Code of Conduct. **Plagiarism**, either deliberate or accidental, includes using the exact wording or paraphrased wording of another student's work or from other sources without proper citation (quotations and author

name and year published or website address). It is preferred that all answers be in your own words when turning in individual or group work.

The following web sites offer excellent definitions of both deliberate and accidental plagiarism and have information on proper citations:

http://www.millikin.edu/staley/research/prevent_plagiarism.asp

http://www.turnitin.com/research_site/e_home.html

Cheating on lab practicals include, but is not limited to, the following activities:

- looking onto someone's answer sheet, even if you do not use their answers,
- knowingly allowing someone to look onto your answer sheet,
- using a cheat sheet, or other unauthorized material
- talking to someone or otherwise exchanging information during an exam,
- asking someone what is on a lab practical or telling someone what is on a lab practical,
- waiting out in the hallway when people have just taken the exam to hear them discuss the lab exam.
- removing from lab any material meant to stay in lab, e.g., models, dissected organs, etc.,
- going or looking into a lab where the lab practical is set up, and,
- getting the answer key before the test.

All incidents of academic dishonesty are reported to the Dean 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.

2114 Night Lab Schedule

Wk	Date	Lab topic	Manual	Text pgs.	Atlas
1	1/9- 1/11	<ul style="list-style-type: none"> • Lab guidelines & safety instructions • Blood cell identification • Blood Pathology handout, 10 pts 	ii-vi 1-7	689-90, 696-699, 701-02	24-27 Web links
2	1/16- 1/18	<p>Holiday—No lab-Monday</p> <ul style="list-style-type: none"> • Blood typing • Blood genetics problems, 10 pts. 	10-12 15-16	691-695	
3	1/23- 1/25	<ul style="list-style-type: none"> • Hematocrit, hemoglobin • Hematology Data Sheet, 10 pts. 	8-10 13-14	681	
4	1/30- 2/1	<ul style="list-style-type: none"> • Heart anatomy and blood flow. PLQ1 • Lab exam I: hematology, 25 pts 	17-21	716-725	
5	2/6- 2/8	<ul style="list-style-type: none"> • Sheep heart dissection • Electrocardiography, 10 pts. 	22-26	731-733	
6	2/13- 2/15	<ul style="list-style-type: none"> • Artery anatomy & blood flow, PLQ2 • Artery & vein histology • Lab exam II: heart, 25 pts. 	27-31	773-797	119- 121, 126-127

Wk	Date	Lab topic	Manual	Text pgs.	Atlas
7	2/20-2/22	<ul style="list-style-type: none"> • No lab-Monday--Holiday • No Lab-Wednesday--FD 			
8	2/27-2/29	<ul style="list-style-type: none"> • Vein anatomy & blood flow, PLQ3 • Lymphatic system • Lab exam III: artery anatomy, 25 pts 	32-36	775-799 811-821	98-101 118, 121 124-127
9	3/5-3/7	<ul style="list-style-type: none"> • Learn respiratory anatomy, PLQ4 • Spirometry • Lab exam IV: vein & lymphatic anatomy, 25 pts. 	37-41	855-866 874-877	
3/12-3/16		• SPRING BREAK			
10	3/19-3/21	<ul style="list-style-type: none"> • Respiratory Physio-Ex, 10 pts. • Start Acid-Base Balance worksheet 	42-44 54-59	874 942-947	Physio-Ex Web links
11	3/26-3/28	<ul style="list-style-type: none"> • Urinary system anatomy, PLQ5 • Renal Physiology Physio-Ex, 10 pts. • Lab exam V: Respiratory anatomy & physiology, 25 pts 	45-48 49-40	898-904 905-907	Physio-Ex 124-125
12	4/2-4/4	<ul style="list-style-type: none"> • Urinalysis, 10 pts • Finish Acid-Base Balance, 20 pts. 	51-53 54-59	918-920	
13	4/9-4/11	<ul style="list-style-type: none"> • Digestive Anatomy, PLQ6 • Lab Exam VI: Urinary system, acid-base balance, 25 pts 	60-65	954-965 974-981 990-92	34 122-123 98-99
14	4/16-4/18	<ul style="list-style-type: none"> • Male reproductive & ovary anatomy, PLQ7 • Lab exam VII: Digestive anatomy 	66-69	1040-1047 1065-1067	39 41-42 125
15	4/23-4/25	<ul style="list-style-type: none"> • Female reproductive anatomy, PLQ8 • Female repro. cycle handout, 10 pts • Lab exam VIII: Male reproductive & ovarian anatomy, 25 pts 	70-75	1065-1074 1077-1084	124
16	4/30-5/2	<ul style="list-style-type: none"> • HAPS exam & Clean up • Lab exam IX: Female reproductive system, 25 pts 			

PLQ = Prelab Quiz due before this lab period

Lab Grade Record

Activity	Possible Points	Earned Points
Unit 1 - Blood		
Blood Pathology	10	
Blood Genetics	10	
Hematology Data Sheet	10	
Blood Lab Practical	25	
Unit 2 - Heart		
Prelab Quiz 1	5	
Electrocardiography	10	
Heart Lab Practical	25	
Unit 3 – Arteries		
Prelab Quiz 2	5	
Artery Lab Practical	25	
Unit 4 – Veins & Lymphatic System		
Prelab Quiz 3	5	
Vein & Lymphatic Lab Practical	25	
Unit 5 – Respiratory System		
Prelab Quiz 4	5	
Respiratory Physiology	10	
Respiratory Lab Practical	25	
Unit 6 – Urinary System		
Prelab Quiz 5	5	
Renal Physiology	10	
Urinalysis	10	
Acid-Base Balance	20	
Urinary Lab Practical	25	
Unit 7 – Digestive System		
Prelab Quiz 6	5	
Digestive Lab Practical	25	
Unit 8 – Male Repro. & Ovarian Anatomy		
Prelab Quiz 7	5	
Male Repro & Ovarian Lab Practical	25	
Unit 9 – Female Reproductive System		
Prelab Quiz 8	5	
Female Reproductive Cycle	10	
Female Reproductive Lab Practical	25	