

BIOLOGY 2114 DAY LAB SYLLABUS

Spring 2012



Instructors	Office	Phone*	Office Hours	Sections taught
Marc Robichaud	S101	1747	TTh 9:30-11am, W 10-11am, TTh 4-5	W & Th 11am
Joan McKeenan	S108	1232	M-Th 11am-12pm, T 2-3pm	Th 2 pm
Margaret Guiney	S101	1199	M. 3:30-4:30pm; MW. 7:45-8:45pm; F 10-11am	F 11am
Brad Martinsen	S101	422-6076	MW 4:30-5pm, 7:45-8pm, 9:20-9:35pm	MW 5 pm & 8 pm

* phone numbers start with 763-433-# unless otherwise indicated

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

Website: <http://webs.anokaramsey.edu/biology/A&P>

Required material:

Saladin, K. S. 2012. *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 8.0 Laboratory Simulations in Physiology.* Benjamin Cummings, San Francisco.

Biology Department. Fall 2011-Spring 2012. *Anatomy and Physiology II: Laboratory Manual for Biology 2114 at Anoka-Ramsey Community College*

Anatomy & Physiology Revealed Version 3.0 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** 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), lasts 5 minutes and you are allowed two attempts. Your highest score will be recorded.

- Please check the syllabus for quiz dates – you will have a 5 day window in which you will need to log in and take your quiz. **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. There are no drops for pre-lab quizzes in BIOL2114.

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 are in the lab manual (pg. 5) and will be reviewed before your first exam.
- There are nine 20-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.
Handouts 7 (8-1 drop) @ 10 pts.	70 pts.
Total	330 pts.

Attendance Policy

Attendance is expected of all students for all labs and missing more than two labs will result in an automatic ZERO in lab. 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. 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 (433-1350). Religious accommodations should be discussed with the professor at the beginning of the semester.

2114 Day Lab Schedule

Wk	Date	Lab topic	Manual	Text pgs.	Atlas
1	1/11-1/13	<ul style="list-style-type: none"> • Lab guidelines & safety instructions • Blood cell identification • Blood Pathology handout, 10 pts 	3-8 9-15	689-90, 696-699, 701-02	24-27 Web links
2	1/18-1/20	<ul style="list-style-type: none"> • Blood typing • Blood genetics problems, 10 pts. 	18-20 23-24	691-695	
3	1/25-1/27	<ul style="list-style-type: none"> • Hematocrit, hemoglobin • Hematology Data Sheet, 10 pts. 	16-18 21-22	681	
4	2/1-2/3	<ul style="list-style-type: none"> • Lab exam I: hematology, 25 pts • Heart anatomy and blood flow. PLQ1 	25-29	716-725	
5	2/8-2/10	<ul style="list-style-type: none"> • Sheep heart dissection • Electrocardiography, 10 pts. 	30-34	731-733	
6	2/15-2/17	<ul style="list-style-type: none"> • Lab exam II: heart, 25 pts. • Artery anatomy & blood flow, PLQ2 • Artery & vein histology 	35-39	773-797	119-121, 126-127
7	2/22-2/24	<ul style="list-style-type: none"> • Open Labs on Wed & Thursday • No Lab - Friday 			
8	2/29-3/2	<ul style="list-style-type: none"> • Lab exam III: artery anatomy, 25 pts • Vein anatomy & blood flow, PLQ3 • Lymphatic system 	40-44	775-799 811-821	98-101 118, 121 124-127
9	3/7-3/9	<ul style="list-style-type: none"> • Lab exam IV: vein & lymphatic anatomy, 25 pts. • Learn respiratory anatomy, PLQ4 • Spirometry 	45-53	855-866 874-877	
3/12-3/16		• SPRING BREAK			

Wk	Date	Lab topic	Manual	Text pgs.	Atlas
10	3/21-3/23	<ul style="list-style-type: none"> • Respiratory Physio-Ex, 10 pts. • Start Acid-Base Balance worksheet 	54-56 66-69	874 942-947	Physio-Ex Web links
11	3/28-3/30	<ul style="list-style-type: none"> • Lab exam V: Respiratory anatomy & physiology, 25 pts • Urinary system anatomy, PLQ5 • Renal Physiology Physio-Ex, 10 pts. 	57-60 61-62	898-904 905-907	Physio-Ex 124-125
12	4/4-4/6	<ul style="list-style-type: none"> • Urinalysis, 10 pts • Finish Acid-Base Balance, 20 pts. 	63-65 70-71	918-920	
13	4/11-4/13	<ul style="list-style-type: none"> • Lab Exam VI: Urinary system, acid-base balance, 25 pts • Digestive Anatomy, PLQ6 	72-77	954-965 974-981 990-92	34 122-123 98-99
14	4/18-4/20	<ul style="list-style-type: none"> • Lab exam VII: Digestive anatomy • Male reproductive & ovary anatomy, PLQ7 	78-81	1040-1047 1065-1067	39 41-42 125
15	4/25-4/27	<ul style="list-style-type: none"> • Lab exam VIII: Male reproductive & ovarian anatomy, 25 pts • Female reproductive anatomy, PLQ8 • Female repro. cycle handout, 10 pts 	82-87	1065-1074 1077-1084	124
16	5/2-5/4	<ul style="list-style-type: none"> • Lab exam IX: Female reproductive system, 25 pts • Assessment exam • Clean up 			

PLQ = Prelab Quiz due before this lab period

Grade Record

Activity	Possible Pts.	Earned Pts.	Activity	Possible Pts.	Earned Pts.
Blood Pathology	10		Respiratory Practical	25	
Blood Genetics	10		Prelab Quiz 5	5	
Hematology Sheet	10		Renal Physio-Ex	10	
Blood Lab Practical	25		Urinalysis	10	
Prelab Quiz 1	5		Acid-Base Balance	20	
Electrocardiography	10		Urinary Practical	25	
Heart Lab Practical	25		Prelab Quiz 6	5	
Prelab Quiz 2	5		Digestive Practical	25	
Artery Lab Practical	25		Prelab Quiz 7	5	
Prelab Quiz 3	5		Male Repro Practical	25	
Vein & Lymphatic Lab Practical	25		Prelab Quiz 8	5	
Prelab Quiz 4	5		Female Repro Cycle	10	
Respiratory Physio-Ex	10		Female Repro Practical	25	