

Human Anatomy & Physiology I - Lec/Lab Hybrid

Biology 2113.03 4 credits Spring Semester 2012

Prerequisite: Completing BIOL 1106 with a grade of C or better

Anoka-Ramsey Community College - Coon Rapids Campus

January 19, February 2 & 16, March 1 & 22, April 5 & 19, May 3; 8:00-10:50 am; \$150

**THIS SYLLABUS IS TO BE USED FOR TRANSFER PURPOSES ONLY
AND IS THE INTELLECTUAL PROPERTY OF THE INSTRUCTOR**

Instructor: Melissa Mills

Office: Science 106

Office Hours: 12-12:50 pm MWF, 11-12:50 pm H

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Email Address: melissa.mills@anokaramsey.edu

D2L Discussion: **This is how I want you to contact me at ALL times during the term!**

Required Materials:

1. Anatomy and Physiology: The Unity of Form and Function, 6th ed., by Kenneth S. Saladin (Connect Plus A&P/ A&P Revealed 3.0 Online)
2. PhysioEx 9.0 For A&P: Laboratory Simulations in Physiology, by Peter Zao and Timothy Stabler

Course Description:

The structure and function of the human body are both fascinating and relevant topics. Every time you read or hear about the latest medical breakthrough, you are learning about anatomy and physiology. I hope that as this course progresses, you will grow to appreciate the intricacies of how your body functions. This knowledge will also enable you to be a better decision-maker regarding your own health care.

We will be focusing on the relationship between structure and function as we study each body system. We will also be working on critical thinking tasks to be able to see how all of the systems that we will study work together to maintain the body's homeostasis.

Graded Exercises

Lecture points = 700

1. The **seven** lecture exams given on campus will cover material from the lecture study guides. The questions may include multiple choice, true-false, matching, tables, fill-in-the-blank, and short answer. Questions will vary from straight recall and recognition to problem solving and analysis. Physiology will be the emphasis on the lecture exams. Each exam will be worth 50-100 points, totaling 450 points. The final exam is not comprehensive.
2. You will complete **seven** critical thinking assignments online worth 10 points each. The lowest group assignment will be dropped. The total for all the group assignments will be 60 points.
3. You will complete **seven** short-answer quizzes on D2L worth 20 points each. The lowest quiz score will be dropped. The total for all the quizzes will be 120 points.
4. You will complete **five** introduction assignments worth a total of 28 points.
5. You will complete **fourteen** 3-point assignments on the Connect site worth a total of 42 points. You will need to get 70% or higher on the Connect quiz to receive 3 points and complete 70% of the LearnSmart questions to receive 3 points. You will receive 2 points for 60-69% and 1 point for 50-59% as well.

Lab Points = 300

1. The **twelve** lab practical exams given on campus will cover laboratory material presented in class and online. Questions will vary from practical anatomy identification to short answer analysis. Anatomy will be the main emphasis on the lab practical exams, but physiology will be covered as well. Each exam will be worth 20 points, with two exams given most meeting days. The lowest lab practical exam score will be dropped. The total for all the practical exams will be 220 points
2. You will complete **two** in-lab activity group assignments worth 15 points each. The total for all the group assignments will be 30 points.
3. You will complete **fourteen** lab assignments worth a total of 50 points.

Total course points = 1000

Keep all of your graded papers from both lecture and lab until the final grade for the course is given. It is your responsibility to be able to verify a grade if you believe there is an error in my grade sheet.

Borderline Grade Paper

In order to insure the higher grade in the case of a borderline situation, you have the option of writing a paper. If you have a borderline grade (within 10 points of the higher grade) and complete the assignment properly, you may receive the higher grade. **However, if you have not received the higher grade on at least 2 of the lecture exams, the borderline points will not bring you up to the higher grade.** If you do not complete the assignment, your grade will be determined by your exact point total, even if you miss the higher grade by a few points. Try it. It can't hurt and you will learn something!

1. Locate an article relating to any system that we have covered in class this term. This article can be from a newspaper, popular magazine, the internet, or a professional journal. Be sure that it has enough substance to summarize and evaluate.
2. Section 1: Summarize the article. What are the main points of the article? What is the author trying to say to the reader? Be sure to give the author credit whether you are using a direct quote or paraphrasing.
3. Section 2: Relate the article to information that you learned in class lectures and from your textbook. How does this new information enhance classroom information? Are there any discrepancies between information in the article and classroom information? Make sure that you take time to think through the relationships before writing your paper.
4. Your paper should be two full pages in length (double-spaced), size 12 font with no more than 3 lines of student information at the top of the first page. Turn in a copy of the article with your paper. Make sure that you include a complete works cited listing as part of your paper. Evaluation will be based on complete development of both sections and readability.

Grading Policy

If you wish to take the course on a "Pass/Fail" basis, you must inform me by the end of the first week of class. I will not consider giving an "Incomplete" to a student unless at least 75% of the total course work has been completed. Do not ask for an "Incomplete" due to low points. A course grade will be determined on a "percentage of total points" basis.

Grading Scale

90-100%	900-1000	A
80-89%	800-899	B
70-79%	700-799	C
60-69%	600-699	D
less than 60%	<600	F

Classroom Behavior

By enrolling in this course, you have become a welcome member of a *community of learners*, an honor and a privilege for each one of us. Your membership in this community and your success in this course are dependent upon your ability to do the following:

Be Respectful. Respect your instructor as an expert in his or her subject area and as the person responsible for facilitating a productive course for everyone. Respect each of your classmate's right to a valuable class experience, free of offensive language, intolerance, or harassment of any kind. Respect these facilities and our time together by eliminating all distractions, especially cell phones, iPods, and other gadgets, and by refraining from disruptions of any kind, including eating food that makes noise or has a strong odor, sleeping in class, packing up before class is over, or talking when no formal class discussion is taking place. Laptops are acceptable ONLY if being used for coursework. Finally, respect yourself by participating fully in each class session and making the most of this learning opportunity.

Be Responsible. As a student in this college course, you are entirely responsible for your own success. You are responsible for reading and following the syllabus. It's expected that you arrive to each class session on-time, with assigned work completed, ready to participate fully. If you are late, you need to sit in the back to minimize disruption. If you miss class, you are responsible for the consequences. You are also responsible for obtaining notes, assignments, and syllabus adjustments. Finally, you are responsible for being an active participant in this class rather than a passive observer.

Rise to the Challenge. College-level courses are demanding. They require deeper thinking, more effective writing, and greater personal involvement than many students realize. In order to succeed at this level, you must be willing to accept the challenges presented by the course material, your instructors, and a rigorous schedule. One of the rewards of this challenge can be the discovery that you are capable of much more than you imagined. Therefore, expect great things from yourself, work hard to achieve them, and seek help when you need it. The other members of this community of learners are here to support you, but it's up to you to *rise to the challenge*.

Plagiarism and Copying Policy

To plagiarize is "to take ideas, writings, etc. from another and pass them off as one's own." (Webster) This is unacceptable behavior. Also unacceptable is the use of any unauthorized notes or help during exams. **Any work found to be plagiarized, copied, or using unauthorized help will receive no credit. This violation will be reported to the Dean, and the student will be subject to sanctions outlined in the Student Code of Conduct. Two violations will result in a grade of F for the semester. See the Practical Lab Exam Guidelines for details regarding incidents of cheating in the lab.**

Attendance Policy

You are expected to attend all on campus class meetings. You are responsible for all information given in class and online. If you miss classroom time, you are responsible for getting the missed material from someone other than me.

Make-up Policy

Everyone is expected to complete all exams and assignments on the dates and times scheduled.

For lecture, no make-up exams will be given if you do not contact me before the exam is given. Contact me on the D2L site. In some cases, I will need verification of the reason for your absence. It will be up to my discretion whether or not you may take a make-up exam. No more than one make-up exam may be taken by a student per term. Make-up exams approved by me must be taken within three days of the original exam date. The make-up exam may be an essay exam.

For lab, no make-up exams will be given. A missed lab exam will be dropped as the low score. Any subsequent missed lab exams will be given no credit.

Special Needs

If you need any special accommodations for testing, please contact Access Services at 763-433-1334. No special testing arrangements will be made without documentation from the Access Services office.

IF YOU KEEP ORGANIZED AND KEEP MOTIVATED, YOU ARE GOING TO LEARN A GREAT DEAL OF VALUABLE INFORMATION ABOUT YOURSELF AND HOW YOUR BODY WORKS. KEEP AN OPEN MIND AND ENJOY! YOU ARE HERE TO BETTER YOURSELF BY LEARNING! THIS SHOULD BE YOUR ULTIMATE MOTIVATOR – NOT JUST THE PURSUIT OF A GRADE ON A PIECE OF PAPER.

Learner Outcomes

At the conclusion of the course, the student should be able to:

1. Demonstrate the ability to synthesize, analyze, compare and contrast, and integrate information regarding the human body.
2. Demonstrate the ability to solve problems in anatomy and physiology based on an accumulation of past and present learning including concepts in chemistry and cell biology.
3. Demonstrate an understanding of physiological processes occurring in the body and their relationship to homeostasis.
4. Demonstrate an understanding of the interrelationships between body structures and functions and identify how they fit together.
5. Demonstrate an understanding of the major areas of course content.

Biology 2113 Tentative Lecture/Laboratory Schedule

This schedule may be modified by your instructor at any point in the term as is needed.

Week	Class & Due Dates	Lecture Topic	Textbook Chapters and Points	Laboratory Topic	Points	Textbook Pages
1-3	Jan 19 Class	*Unit 1: Introduction to A&P *Unit 2: Histology	Ch 1 Ch 5	*Lab guidelines & safety instructions *Lab Unit 1 Parts 1-3: Organization of the Body & Biomedical Imaging *Lab Unit 2: Histology		29-37, 23-24 149-152, 157-165
	Online Due 1/26 1/26 1/26 2/1 2/2 in class 2/1 2/1 2/1 Ind 1/28 Gp 2/1	*D2L News *Complete Syllabus Quiz *Complete Fears, Hopes & Dreams Survey *Complete Learning Styles Dropbox *Complete Class Preparation Dropbox *Complete Time Management Plan *Complete Units 1-2 Lec Guides/Videos *Complete Connect Units 1-2 Practice Quizzes *Complete Units 1-2 LearnSmart *Complete Lecture Quiz 1 on Units 1-2 *Complete Critical Thinking 1- Ind & Grp	6 pts 5 pts 6 pts 6 pts 5 pts 3 pts 3 pts 20 pts 10 pts	*D2L News *Complete Lab Safety Quiz - Dropbox *Complete Lab Unit 1 Organization of the Body & Biomedical Imaging, Parts 1-3 *Complete Anatomical Position, Anatomical Planes, Directional Terms Dropbox *Complete Body Cavities Dropbox *Complete Biomedical Imaging Chart due 2/2 in class *Complete Lab Unit 2 Histology *Complete Tissue Types & Subtypes Chart Dropbox Complete all above assignments by midnight on 2/1 unless due in class	5 pts 9 pts 3 pts 3 pts 3 pts	

4-5	Feb 2 Class	<p>*Exam 1: Introduction to A&P, Histology *Unit 3: Integumentary System *Unit 4a: Skeletal System Introduction</p>	<p>70 pts Ch 6 Ch 7 thru pg 213 & pgs 234-236 of Ch 8</p>	<p>*Exam1: Organization of Body, Biomedical Imaging *Exam 2: Histology *Lab Unit 3: Integumentary System *Cutaneous Receptor Tests - Group *Lab Unit 4: The Skull, Microscopic Bone Anatomy & Long Bone Anatomy</p>	<p>20 pts 20 pts 15 pts</p>	<p>182 586-587 236-250, 211-213, 208-209</p>
	<p>Online Due 2/15 2/15 2/15 Ind 2/11 Grp 2/15</p>	<p>*D2L News *Complete Units 3-4a Lec Guides/Videos *Complete Connect Units 3-4a Practice Quizzes *Complete Units 3-4a LearnSmart *Complete Lecture Quiz 2 on Units 3-4a *Complete Critical Thinking 2 - Ind & Grp</p>	<p>3 pts 3 pts 20 pts 10 pts</p>	<p>*D2L News *Complete Lab Unit 3 Integumentary System *Complete Lab Unit 4 The Skull, Microscopic Bone Anatomy & Long Bone Anatomy *Complete Bone Surface Markings Dropbox Complete all above assignments by midnight on 2/15</p>	<p>3 pts</p>	

6-7	Feb 16 Class	*Exam 2: Integumentary, Skeletal Introduction *Unit 4b: Skeletal System Physiology *Unit 5: Articulations	60 pts Ch 7 pgs 214-227 Ch 9	*Exam 3: Integumentary System *Exam 4: Skull, Microscopic Bone Anatomy & Long Bone Anatomy *Lab Unit 5: Axial Skeleton *Lab Unit 6: Appendicular Skeleton	20 pts 20 pts	250-259 259- 272
	Online Due 2/29 2/29 2/29 Ind 2/25 Grp 2/29	*D2L News *Complete Units 4b-5 Lec Guides/Videos *Complete Connect Units 4b-5 Practice Quizzes *Complete Units 4b-5 LearnSmart *Complete Lecture Quiz 3 on Units 4b-5 *Complete Critical Thinking 3 - Ind & Grp	3 pts 3 pt 20 pts 10 pts	*D2L News *Complete Lab Unit 5 Axial Skeleton *Complete Vertebrae Designation Dropbox *Complete Lab Unit 6 Appendicular Skeleton *Complete Male vs Female Pelvis Designation Dropbox Complete all above assignments by midnight on 2/29	3 pts 3 pts	

8-10	Mar 1 Class	*Exam 3: Skeletal Physiology, Articulations *Unit 6a: Muscular System	50 pts Ch 11 thru pg 418 & pgs 313-315 of Ch 10	*Exam 5: Axial Skeleton *Exam 6: Appendicular Skeleton *Lab Unit 7: Joint Classification, Anatomy & Actions *Lab Unit 8: Axial Muscle Anatomy	20 pts 20 pts	279-284 288-297, 304 319-340
	Online Due 3/21 3/21 3/21 Ind 3/17 Grp 3/21	*D2L News *Complete Unit 6a Lec Guides/Videos *Complete Connect Unit 6a Practice Quiz *Complete Unit 6a LearnSmart *Complete Lecture Quiz 4 on Unit 6a *Complete Critical Thinking 4 - Ind & Grp	 3 pts 3 pts 20 pts 10 pts	*D2L News *Complete Lab Unit 7 Joint Classification, Anatomy & Actions *Complete Joint Types Chart Dropbox *Complete Joint Action Photos Dropbox *Complete Lab Unit 8 Axial Muscle Anatomy *Complete Action/Insertion/Origin Dropbox Complete all above assignments by midnight on 3/21	 3 pts 3 pts 3 pts	

11-12	Mar 22 Class	<p>*Exam 4: Muscular System *Unit 6b: Whole Muscle Physiology *Unit 7: General Nervous System</p>	<p>50 pts Ch 11 pgs 418-433 Ch 12</p>	<p>*Exam 7: Joints Classification, Anatomy & Actions, *Exam 8: Axial Muscle Anatomy *Lab Unit 9: Appendicular Muscle Anatomy & Whole Muscle Physiology *Muscle Physio-Ex - Group</p>	<p>20 pts 20 pts 15 pts</p>	<p>343-355, 359-371, 418-421</p>
	<p>Online Due 4/4 4/4 4/4 Ind 3/31 Grp 4/4</p>	<p>*D2L News *Complete Units 6b-7 Lec Guides/Videos *Complete Connect Units 6b-7 Practice Quizzes *Complete Units 6b-7 LearnSmart *Complete Lecture Quiz 5 on Units 6b-7 *Complete Critical Thinking 5 - Ind & Grp</p>	<p>3 pts 3 pts 20 pts 10 pts</p>	<p>*D2L News *Complete Lab Unit 9 Appendicular Muscle Anatomy & Whole Muscle Physiology *Complete Whole Muscle Physiology Terms Dropbox Complete all above assignments by midnight on 4/4</p>	<p>3 pts</p>	

13-14	April 5 Class	Exam 5: Whole Muscle Physiology, General Nervous System *Unit 8: Brain and Cranial Nerves *Unit 9: Spinal Cord, Spinal Nerves and Somatic Reflexes	60 pts Ch 14 Ch 13	Exam 9: Appendicular Muscle Anatomy & Whole Muscle Physiology *Lab Unit 10: Brain Anatomy and Cranial Nerves *Sheep Brain Dissection *Lab Unit 11: Spinal Cord Anatomy, Spinal Nerves and Reflexes *Reflexes	20 pts	512-534, 546-555 479-487, 488-506
	Online Due 4/18 4/18 4/18 Ind 4/14 Grp 4/18	*D2L News *Complete Units 8-9 Lec Guides/Videos *Complete Connect Units 8-9 Practice Quizzes *Complete Units 8-9 LearnSmart *Complete Lecture Quiz 6 on Units 8-9 *Complete Critical Thinking 6 - Ind & Grp	3 pts 3 pts 20 pts 10 pts	*D2L News *Complete Lab Unit 10 Brain Anatomy and Cranial Nerves *Complete Cranial Nerves Table Dropbox *Complete Lab Unit 11 Spinal Cord Anatomy, Spinal Nerves and Reflexes *Complete Reflex Study Sheet Dropbox Complete all above assignments by midnight on 4/18	3 pts 3 pts	

15-16	April 19 Class	*Exam 6: Brain and Cranial Nerves, Spinal Cord, Spinal Nerves and Somatic Reflexes *Unit 10: ANS *Unit 11: Special Senses *Unit 12: Endocrine System	60 pts Ch 15 Ch 16 Ch 17	*Exam 10: Brain Anatomy and Cranial Nerves *Exam 11: Spinal Cord Anatomy, Spinal Nerves and Reflexes *Lab Unit 12: Ear and Eye Anatomy & Endocrine Glands, *Eye Dissection	20 pts 20 pts	601-604, 614-619, 643, 649-656
	Online Due 5/2 5/2 5/2 Ind 4/28 Grp 5/2	*D2L News *Complete Units 10-12 Lec Guides/Videos *Complete Connect Units 10-12 Practice Quizzes *Complete Units 10-12 LearnSmart *Complete Lecture Quiz 7 on Units 10-12 *Complete Critical Thinking 7 - Ind & Grp	3 pts 3 pts 20 pts 10 pts	*D2L News *Complete Lab Unit 12 Eye and Ear Anatomy & Endocrine Glands		
17	May 3 Class 8:00 am	*Borderline Paper Due *Exam 7: ANS, Special Senses, Endocrine System	100 pts	*Exam 12: Ear and Eye Anatomy & Endocrine Glands	20 pts	

Enjoy your summer!!