

BIOL 2113-01
Human Anatomy & Physiology 1
Anoka-Ramsey Community College
Coon Rapids Campus
Lecture Syllabus – Spring 2012

Instructor: Dr. Marc J. Robichaud
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Office Hours: T,H – 9:30-11:00 am, T,H – 4:00-5:00pm, W 10:00-11:00am, 5:30-6:30pm

Meeting Times: Tue & Thu 8:00-9:15am - Room S135

Prerequisite: BIOL 1106 (minimum grade: C or 2.0 GPA equivalent)

Requirements:

Text: Saladin K.S. 2010. *Anatomy & Physiology: the unity of form and function*, 6th edition. McGraw-Hill, Boston.

General Course Description:

Human Anatomy & Physiology I is an intensive, detailed study of body structure and function utilizing principles of chemistry, biochemistry, anatomy and physiology. The course includes the following topics: introduction to anatomy and physiology, tissues, integument system, skeletal system, articulations, muscular system, nervous system, special senses, and endocrine system. Laboratory work will include limited animal dissection. Three lecture hours and one three-hour laboratory per week. This course also satisfies the natural sciences requirements of the Minnesota Transfer Curriculum (MnTC) Goal Area 3.

Learner Outcomes:

At the conclusion of the course, you should be able to...

- define and describe terms used in chemistry and cell biology as they relate to anatomy and physiology.
- use terms in anatomy and physiology appropriately when discussing biological concepts.
- demonstrate the ability to synthesize, analyze, compare and contrast information regarding the human body.
- demonstrate the ability to solve problems in anatomy and physiology based on an accumulation of past and present learning.
- explain cellular and systemic physiological processes.
- demonstrate an understanding of physiological processes occurring in the body and their relationship to homeostasis.
- demonstrate an understanding of the interrelationships between body structures and functions and identify how they fit together.
- demonstrate the ability to access resources to gather information about the human body.

General Policies:

Expectations of Students: As part of the transfer curriculum, this course is held to the standards set forth by the Minnesota State College and University system. As such, the students in this course are expected to perform at a level equivalent to any student taking a MnSCU science course. In general, to receive an **average** grade, a student is expected to do a **minimum** of two hours of work outside of class for every hour in class.

Attendance: Class attendance is strongly encouraged. While it is not directly factored into your grade, your attendance will have an affect on your final grade. If you are absent, **it is your responsibility** to get any information pertaining to the missed class period. While some course information will be available for you to download, it will not make up for additional information **discussed during class**. In addition, **graded group activities** will be completed during some class periods.

Furthermore, it is expected that students **arrive for lecture and lab on time**. Students arriving late will not be given extra time to complete graded assignments, quizzes, or exams. Also, late students are expected to enter the classroom or lab with minimal disruption to the other students. This also applies to students who must leave early.

Grades will be assigned based on your total accumulated points from exams, quizzes, written assignments, reports, and miscellaneous activities from both the lecture and laboratory portions of the course.

Your grade for this class is a combination of lab and lecture grades. To calculate your cumulative grade for A&P1, your lecture percentage grade will contribute 70% to your final grade; your lab percentage grade will contribute 30%. To calculate your total grade, use the following formula:

$(\text{Lecture grade} \times .70) + (\text{Lab grade} \times .30) = \text{Course total grade}$

Final Grades will be determined as a percentage of the total available points:

90-100%	= A
80-89%	= B
70-79%	= C
60-69%	= D
<60%	= F

Grading Options: A non-letter or Pass/Fail grading option is available if you so wish. If you plan to take this course with the Pass/Fail option, please notify me within the first three weeks of the semester. However, once that decision is made, it will remain in effect for the rest of the course. Changes will not be made of any reason after Week 3.

Graded Material:

Exams: There will be 3 **unit exams** worth 100 points each. Each exam will be a combination of true/false, multiple choice, matching, short answer, and/or essay questions. The lecture material will form the primary basis for exams. However, you are responsible for assigned text readings, and should use them, along with other recommended sources to support your study activity. **Total value 300 points**

The **final exam** will be in 2 parts. Part 1 will cover chapters 15, 16 and 17 and be worth 100 pts. Part 2 will be a comprehensive review of the chapters covered and be worth 50 pts. **Total value 150 points.**

Quizzes: There will also **13 quizzes**, which will be given on-line through D2L. These quizzes will be completed outside of class time. You will be given 15 minutes to answer 20 questions. The quizzes will be given before the completion of each chapter in order to evaluate your preparation for each chapter. It will be your responsibility to take the quizzes as they become available on-line. At the end of the semester, your lowest 3 scores will be dropped. **Total value 100 points.**

Assignments: In addition to exams and quizzes, there will be **graded group assignments** and classroom activities. You will be given specific details of these assignments in class. **Total value 120 points**

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.

Make-Up Policy: Exams will be allowed to be made up, but **only** in the event of a prearranged excused absence (or a documented emergency or catastrophe). You will need to contact me verbally or by e-mail prior to the absence. In some cases, I will need verification of the reason for your absence. If a make-up is necessary and approved, it must take place within three school days of the originally scheduled date. **Under no circumstances will more than ONE make-up exam be allowed during the semester.** Make-up exams will very likely be different from the original exam.

Late Work: Assignments are due at the beginning of class on the day they are due. Work turned in after the class period will be considered late. Late assignments will be penalized **10% per day late and up to a maximum of 5 days late.**

Academic Honesty: The college policy on the standards of student conduct, as it appears in the Student Handbook, will be followed in this course. Academic dishonesty is a flagrant violation of College policy, and includes but is not limited to cheating, plagiarism, forgery, and the unauthorized use of materials prepared by another person. The term cheating includes, but is not limited to:

- a) use of any unauthorized assistance in taking quizzes, tests, or examinations;
- b) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or
- c) the acquisition, without permission, of tests or other academic material belonging to a member of the College faculty or staff.

The term "plagiarism" includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgement. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

Laptop Computer Use: Laptop computers are acceptable for use in class. However, "use" is defined as activities pertaining directly to class, such as note-taking or class discussion. Any other use of a computer, such as game-playing, sending e-mails, or "surfing the net" during class is completely unacceptable.

Cell Phone Use: Cell phone use (voice or text) is not allowed in the classroom or lab. All phones should be turned **OFF** prior to entering the classroom or lab. If a situation occurs that may require emergency communication, please notify the other party in advance to contact you through the school (as would happen with any other unexpected event.).

Any improper use of cell phones or computers during class, especially during exams, will be considered a breach of the policy on Standards of Student Conduct, and will be dealt with in the appropriate manner.

On-Line Activities:

Desire To Learn (“D2L”) is a web site that offers an electronic connection to the course. It is available from the ARCC homepage (D2L login”) or directly at <https://www.anokaramsey.edu/onlineProg/>. This site allows students access to electronic copies of the syllabus, lecture presentations, handouts, quizzes, and other material, illustrations, photos, web sites, etc. that will be helpful. It is a good practice to regularly check this site for information regarding the course. Grades will also be available on D2L.

Much of the information on D2L is made available for use by the students outside of class time. It is a bonus and should be used as such. It should not be used as a substitution for attending class. It is still the responsibility of the student to get any information that may have been distributed during class.

Lecture Schedule:

The following schedule is tentative. The sequence of topics and exam dates are unlikely to change. However, if more time is needed to cover specific topics, the exact dates of subsequent topics may change. Any changes to this schedule will be announced in class or on D2L.

Week	Dates	Topics	Text Ch.
1	1/10	Introduction,	1 (omit 1.3 – 1.5)
	1/12	Body Organization, Homeostasis	Atlas A
2	1/17	Histology: Terminology, Tissue types, Tissue repair	5
	1/19	Continued...	5
3	1/24	Integumentary System: Anatomy	6
	1/26	Integumentary System: Color, Hair, Nails, Cutaneous glands	6
4	1/31	Integumentary continued	6
	2/2	Skeletal System: Terminology, Histology	7
5	2/7	EXAM I (Ch. 1, Atlas A, Ch. 5,6)	
	2/9	Skeletal System: Histology, Bone Development, Repair	7
6	2/14	Skeletal System: Articulations, Movement, Joint Biomechanics	9
	2/16	Skeletal System continued.....	9

7	2/21	Muscular System: Organization	10 (pp.320-325)
	2/23	Muscular Tissue: Anatomy, Fiber contraction	11
8	2/28	Muscular: Fiber Contraction, Whole muscle behavior	11
	3/1	Muscular: Metabolism, Cardiac & Smooth Muscle	11
9	3/6	Nervous System: Organization, Histology Membrane potentials, Synapses, Neurotransmitters	12
	3/8	EXAM II (Ch.7,9,10&11)	
10	3/13		
	3/15	MARCH BREAK	
11	3/20	Nervous System: Spinal cord	13
	3/22	Nervous System: Spinal cord	13
12	3/27	Nervous System: Brain	14
	3/29	Nervous System: Brain	14
13	4/3	Nervous System: Autonomic Nervous System	15
	4/5	Nervous System: Autonomic Nervous System	15
14	4/10	Exam III (Ch. 12,13,14)	
	4/12	Endocrine System	17
15	4/17	Endocrine System	17
	4/19	Endocrine System	17
16	4/24	General Senses	16
	4/26	Hearing (& Equilibrium), Vision	16
17	5/1	Hearing (& Equilibrium), Vision	16
	5/3	Hearing (& Equilibrium), Vision	16
18	5/7 – 5/11	Exam date and location to be determined	