

Syllabus

A&P 1 Fall 2009 White Earth

I. **COURSE NUMBER & TITLE:** Biology 2252 – Anatomy & Physiology I

II. **CREDIT HOURS:** 3

III. **HOURS PER WEEK:** 2 hours lecture: 30 lecture hours / semester (9:00 am – 12:10 pm Tuesday)
2 hours lab: 30 lab hours / semester (On-line)

IV. **CATALOG DESCRIPTION:** An advanced course designed to acquaint the student with the structure and function of skeletal, muscular, nervous, and special senses systems in the human body. This course will also investigate the impact of environmental influence on the human body, as well as the effects of the environment and genetics on disease processes. This is a course required by all health-related fields.

V. **PRE-REQUISITE:** Biological Principles I (BIOL 1111) or admission to LPN nursing program.

VI. **OBJECTIVE OF THE COURSE:** To present a progression or sequence in the study of the human body.

Learner Outcomes:

The student should be able to:

- define the terminology of planes, sections, and orientation of body parts.
- define basic terms and concepts from chemistry.
- list and explain the four major organic molecules found in the body.
- list the intracellular organelles and describe the function of each organelle.
- classify the four types of tissues found in the body and list the functions each.
- name the layers of the skin and describe the functions of each.
- differentiate between compact and spongy bone.
- identify the bones of the body.
- describe the structure of the skeletal muscle fiber.
- explain how muscle contraction occurs.
- identify the major muscles found in the body.
- name the organs of the circulatory system and describe the functions of each.
- explain the path of blood through the heart.
- list factors that affect heart rate and blood pressure.
- name the organs of the lymphatic system and describe the functions of each.
- list the different types of immunoglobulins and describe the functions of each.
- list the different types of cells of the immune system and describe the functions of each.
- list the organs of the respiratory system and factors that influence the breathing rate.

The Common Course Outline can be accessed by using this link:

[COMMON COURSE OUTLINE](#)

VII. INSTRUCTIONAL MEDIA:

- 1) Required Text:
Principles of Anatomy and Physiology, 12th Edition,
by Gerard J. Tortora, Bryan H. Derrickson, @ April 2009
- 2) Required Lab Manual:
Anatomy & Physiology 1 Online Lab Manual, 2008 Edition,
by Terry Wiseth, Published by EMG Publishing, @July 2008
- 3) Required Study Guide:
Anatomy & Physiology 1 Study Guide, 1st Edition,
by Terry Wiseth, Published by EMG Publishing, @December 2006

VIII. **SPECIFIC COURSE REQUIREMENTS:** Completion of lab exercises and successful completion of unit exams and quizzes is mandatory. Keeping up with CD ROM lectures as well as performing required readings, lab reports and internet quizzes is mandatory. There will be very little time spent on concepts from pre-requisite courses. This material is in the book, if you need refreshing.

IX. GRADING PROCEDURE:

4	Unit Exams	100 points each	= 400
4	Quizzes	20 points each	= 80
4	Summary Papers	20 points each	= 80
12	Lab Reports	15 points each	= 180
4	Lab Practicals Online	<u>15 points each</u>	<u>= 60</u>
	Total points		= 800

GRADING SCALE

90 – 100 A

80 – 89 B

70 – 79 C

60 – 69 D

below 60 F

*Lab Reports

Lab reports consist of answers to assigned questions, sketches and tables for each lab. Your answers should be in complete sentences and sketches and tables as accurate as possible. Each lab will be worth a maximum of 15 points. Be very sure that you read the instructions and directions on how to submit a proper lab report in the Lab Instructions. You must perform all 12 of the labs in order to complete the course. The Lab Syllabus is separate.

*Summary Papers (100-250 words long)

You will need to write 4 summary papers. You can access a list of internet sources by using the link given on the HOME PAGE titled SUMMARY PAPER INTERNET SOURCES. You are not limited by the lists of links given for the summary papers. You may also use your textbook, periodicals, magazine articles, internet searches, interviews, etc. You may choose more than one reading to include in your summary. You will receive credit for only four summary papers for the course. Each summary paper is worth a maximum of 20 points. Submission of your summary paper will be in class. Be sure that the summary paper is typed. The summary paper must be **at least** 100 words long and **no longer** than 250 words (this would be about ¼ to ½ page in length). Be very sure that you indicate your sources for the summary papers. You should maintain a copy of the paper to save for your records.

Summary Paper Criteria

- 1) Typewritten
- 2) 100 -250 words in length (¼ to ½ page in length)
- 3) Sources listed

*Work handed in Late

Assignments handed in later than the agreed upon time **will** be graded lower. Exams taken later than the agreed upon time will be modified exams.

*Extra credit: Topic Paper (80 points)

Topic paper involving the scientific field of Anatomy & Physiology.
Paper requirements:

- A) Title page
- B) Bibliography or works cited page
- C) 5 typed pages in the body of the paper
 - *font size no larger than 12
 - *single spaced
 - *margins on top, sides and bottom no more than ¾ inch
 - *a total of 7 pages in the report
- D) A minimum of 3 sources
 - *at least 1 of the sources must be from the Internet
 - *at least 2 of the sources cannot be from the internet
- E) Topic approved by instructor
- F) This paper is due the last day of scheduled classes

X. QUIZZES & UNIT EXAM SCHEDULE: Quizzes and unit exams will be taken as prescribed in the schedule below. Lab Practical exams will be taken online on your own honor. If you choose to do the Topic paper, it must be completed by the end of the semester. Access to the lab practical can be found from the A&P 1 Home Page.

Lab Specifications:

Labs will be performed independently online. Four lab practicals will be given on – line. The links for the lab practicals can be found on the **A&P 1 HOME PAGE**. The lab practicals do not need to be proctored and are performed on the student's honor. You will not be able to use any reference materials while performing the lab practicals.

XI. INSTRUCTOR:

Professor: Terry Wiseth
Office hours: 11 am - 12 pm Monday – Friday
Office Phone: 218-683-8726
Home phone: 218-681-1217
Office: 265 E
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XII. COURSE CONTENT:

Homeostasis/ Chemistry/ Cell Heart
 Integumentary Respiration
 Bone Blood Vessels / Lymphatics
 Muscle Immunity

XIII. A&P 1 HOME PAGE:

<http://biologyonline.us/Online%20A&P/AP%201/Northland/AP1%20Home/AP1Index.htm>

ASSIGNMENT DUE DATES						
Date	Quiz	Exam	Summary Paper	Lab Report	Lab Practical	Lecture
9/8	Quiz #1					Integumentary
9/22		Exam #1	Summary Paper #1	Lab #1,		Integumentary
10/6	Quiz #2			Lab #2		Bone
10/20		Exam #2	Summary Paper #2	Lab #3, Lab #4	Lab Practical #1	Muscle
11/3	Quiz #3			Lab #5, Lab #6	Lab Practical #2	Heart
11/17		Exam #3	Summary Paper #3	Lab #7, Lab #8		Heart, Respiration
12/1	Quiz #4			Lab #9, Lab #10	Lab Practical #3	Respiration
12/15		Exam #4	Summary Paper #4	Lab #11, Lab #12	Lab Practical #4	
12/15	**Extra credit topic paper is due 12 /15					

Exam Dates		
Exam #1	September 22	Integumentary
Exam #2	October 20	Bone
Exam #3	November 17	Muscle / Heart
Exam #4	December 15	Respiration

Lecture Topic	Text Book Chapter
Homeostasis	Chapter 1
Chemistry	Chapter 2
Cell	Chapter 3, 25
Integumentary	Chapter 5
Integumentary	Chapter 5
Bone	Chapter 6, 7, 8
Bone	Chapter 6, 7, 8
Muscle	Chapter 10, 11
Muscle	Chapter 10, 11
Heart	Chapter 20
Heart	Chapter 20
Respiration	Chapter 23
Respiration	Chapter 23
Blood Vessels	Chapter 21
Lymphatics	Chapter 22

ACADEMIC DISHONESTY

Academic dishonesty refers to misconduct related to academic assignments or examinations, plagiarizing or other misconduct directly related to the academic learning experience. Plagiarism is the unacknowledged use of another person's work (either word for word or in the substance of an idea) in one's own work offered for credit. Plagiarism, cheating, and possession and/or distribution of un-administered examinations may be handled as a scholastic matter (i.e. failing the assignment and/or the course) or as a disciplinary matter in accordance with the Student Code of Conduct. Academic dishonesty or cheating includes, but is not limited to:

- Copying from another student's test paper and/or collaboration during a test with any other person by giving or receiving information without authority; using materials during a test not authorized by the instructor.
- Stealing, buying, or otherwise obtaining all or part of an un-administered test or information about said test.
- Selling, giving, or otherwise supplying to another student for use in fulfilling an academic requirement, any theme, report, term paper, painting, drawing, sculpture, or other work of art; or submitting as one's own, in fulfillment of an academic requirement, any theme, report, term paper, essay, or other written work, painting, drawing, sculpture, or other work prepared totally or in part by another.
- Submitting nearly identical work that one has previously offered for credit in another course, without prior approval by the instructor.

If a student disagrees with charges of academic dishonesty policy against him/her, they must meet with the instructor and attempt a resolution. If the student and the instructor cannot come to a resolution the student may appeal the decision through the appeal process.

SYLLABUS SUBJECT TO CHANGE

I anticipate that we will follow the schedule I have outlined here., but I may make adjustments based on what actually happens during the course. If there are changes, you will be notified by email and/or by a message given on the home page alerting you to the change or changes being made. Remaining in the course after reading this syllabus will signal that you accept the possibility of changes and responsibility for being aware of them.

**USE YOUR BACK BUTTON
TO RETURN**