

COURSE SYLLABUS

Fall 09

I. **COURSE NUMBER & TITLE:** Biology 2256 – Advanced Physiology (NCTC)
<http://programs.northlandcollege.edu/biology/>

II. **CREDIT HOURS:** 2

III. **HOURS PER WEEK:** 3 Thursday 10 am – 11:40 am Room 601

IV. **CATALOG DESCRIPTION INCLUDING PRE-REQUISITE:**

A course designed to increase the student's understanding of the mechanisms involved in the normal functioning of the human body, with lesser emphases regarding the effects of disease on that functioning. Focus is on body defenses and interaction and integration of body processes.

V. **OBJECTIVES:**

This course follows the order of "Nursing Related to Cellular Activity." Coordinated with the respective nursing units, "Advanced Physiology" promotes the learning of Level III science content which students find most relevant when they are actively involved in nursing applications. Specific content included is related to physiological functioning in the maintenance of homeostasis.

VI. **INSTRUCTIONAL MEDIA:**

- A. Lecture
- B. Audio-visual materials
- C. Assigned readings
- D. Unit testing
- E. Text: **Principles of Anatomy and Physiology**, 12th Edition
by Gerard J. Tortora, Bryan H. Derrickson @2009

Study Guide: **Advanced Physiology Study Guide**, 1st Edition,
by Terry Wiseth,
Published by EMG Publishing, @December 2006

VII. **COURSE REQUIREMENTS:**

Completion of summary papers, unit exams and quizzes are mandatory. Regular attendance to lectures is mandatory, as well as performing required readings. While attendance in lecture will not be used in calculation of your course grade, it has been obvious over the years that frequent absences are always associated with lower grades on exams. If you are absent frequently, you may be asked to explain your lack of attendance.

Do not bring your children to class or park them in the halls. Extensive conversation during lectures is disturbing to nearby students, and if you cause a problem in this area, you will be asked to leave. If you would benefit by taping lectures, you are welcome to do so.

The keys to success in this course are simple:

- 1. Come to all the class meetings
- 2. Read the appropriate text material before each lecture.
- 3. Take notes in class, at least in an outline form.

4. Go back and re-read the text; fill in your notes, based mainly upon those topics we covered in lecture.
5. If you have done all the above and still do not understand some concept, ask me about it before, during, or after class.

There will be very little time spent on concepts from pre-requisite courses. This material is in the book, if you need refreshing.

VIII. QUIZZES & TOPIC EXAM SCHEDULE:

Quizzes will be given each lecture when a unit exam is not scheduled. Quizzes **cannot** be made up for any reason. Three unit exams will be given. Unit exams **can** be made up, however the test will be given with modifications. Summary papers are due on the dates indicated on the tentative lecture schedule. Summary papers submitted after the due date may be considered for less than full credit. Any summary paper submitted more than one week late may not be considered for credit.

IX. GRADING:

A minimum grade of C must be attained to successfully complete the course.

3	Unit exams	100 points each	=	300
11	Quizzes	11 points each	=	121
3	Summary papers	27 points each	=	<u>81</u>
	Total			500

A = 90-100
B = 81-89
C = 73-80
D = 66-72
F = below 66

Summary Paper Criteria

- 1) 1-2 pages in length
- 2) Typed
 - * 1 ½ spaces between lines
 - * font size no greater than 12
 - * margins no greater than 1 inch
- 3) 1 source listed
- 4) Paper must apply to some aspect of nursing pertaining to the most recent materials presented in lecture.
- 5) Topic is left to the writer.
- 6) Papers may be handed in electronically by e-mail as a MS Word attachment only

Internet search engines, journals and your textbook are very good sources for topics on summary papers. A good source with links to medical sources is given as a link from the home page

Extra Credit (Optional)

You may perform case studies for each unit for extra credit. Each case study will be worth up to 10 points each. You may perform only one case study for each unit for credit. On the home page you will find a link to the **CASE STUDIES INDEX**. For each unit there are a variety of case studies available to perform. You can choose any one of these case studies to perform for credit. A discussion of criteria on how the case studies are graded is given as a link from the **CASE STUDIES INDEX**.

X. COURSE CONTENT:

Acid – Base	Respiration	Liver, Pancreas
Electrolytes	Blood Gases	Immune System
Fluid Balance	Gas Transport	Reproduction
Homeostasis		Genetics

XI. INSTRUCTOR:

Terry Wiseth
 e-mail: Terry.Wiseth@NorthlandCollege.edu
 Office: 265E
 Office hours: 9 -10 am Thursday
 Office Phone: 683-8726
 Home phone: 681-1217

Tentative Lecture Schedule**EXAM DATES**

September	24	Exam # 1
November	5	Exam # 2
December	10	Exam # 3

LECTURE AND ASSIGNMENT SCHEDULE

DATE	LECTURE	EXAM	QUIZ	SUMMARY PAPER
August 27	Lecture #1 Acid-Base		Quiz #1	
September 3	Lecture #2 Acid-Base		Quiz #2	
September 10	Lecture #3 Electrolytes		Quiz #3	
September 17	Lecture #4 Fluid Balance		Quiz #4	Summary Paper #1
September 24	Lecture #5 Gas Exchange	Exam #1		
October 1	Lecture #6 Gas Exchange		Quiz #5	
October 8	Lecture #7 Gas Transport		Quiz #6	
October 15	NO CLASS (MEA)			
October 22	Lecture #8 Liver		Quiz #7	
October 29	Lecture #9 Liver		Quiz #8	Summary Paper #2
November 5	Lecture #10 Pancreas	Exam #2		
November 12	Lecture #11 Immune System		Quiz #9	
November 19	Lecture #12 Immune System		Quiz #10	
November 26	NO CLASS (THANKSGIVING)			
December 3	Lecture #13 Immune System		Quiz #11	Summary Paper #3
December 10	NO LECTURE	Exam #3		
December 17	NO CLASS (FINALS WEEK)			

TEXT BOOK LECTURE CORRELATIONS

LECTURE	CHAPTER	PAGES
Acid-Base	Chapter 27	1046-1055
Electrolytes	Chapter 27	1042-1045
Fluid Balance	Chapter 27	1037-1041
Gas Exchange	Chapter 23	870-877
Gas Transport	Chapter 23	870-877
Liver	Chapter 24	918-921
Pancreas	Chapter 24	916-918
Immune System	Chapter 22	815-836
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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.

DISABILITIES

If you have a documented disability and wish to receive academic accommodations, please contact the Learning Services Office (Dean Dahlen).

SYLLABUS SUBJECT TO CHANGE

We anticipate that we will follow the schedule that has been outlined here, but adjustments may be made 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.

INFORMATION YOU MAY NEED TO KNOW

It is the student's responsibility to make sure the Registration Office is notified of any change(s) in his/her class schedule.

ADDING A COURSE

During the first six class days of the semester, students may add a class to their schedule by filling out an "ADD" form and having it approved by an advisor.

DROPPING A COURSE

During the first six class days of the semester, students may drop a class from their schedule by completing a "DROP" form and having it signed by an advisor. A course this is dropped will not appear on a student's transcript, however, if it is dropped after the first day of the semester and no classes are added, the student will be charged for the class.

WITHDRAWING FROM CLASS

After the sixth day of the semester and through the sixtieth day of the semester students may withdraw from a class by completing a "WITHDRAWAL" form and having it signed by an advisor. Classes withdrawn from will appear on the transcript with a grade of "W".

Last Day for Late Registration, Drop/Add
Last Day to Withdraw

August 28
December 1

REGISTRAR'S OFFICE

Rocky Ammerman

Phone 683-8540

ISSUING OF GRADES

Disagreements or issues concerning the issuing of grades should first be brought to your instructor. If you feel you need further resolution, contact the Academic Dean's office. The Academic Dean's office will assist you in your pursuit of the matter.

ACADEMIC DEAN

Norma Konschak

Phone 683-8613

USE YOUR BACK BUTTON TO RETURN