

Biology 312-60  
Pathophysiology  
Fall 2008

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**A. Course objectives:**

Biology 312 is an in-depth, comprehensive study of the physiology of human diseases. Students will gain an understanding of how diseases affect normal physiology and how the body responds to stimuli, which disrupt homeostasis. The primary emphasis of the course is on the biological aspects of disease processes. The course is designed to give students in nursing, other health related fields, or the biological sciences, a thorough understanding of the biological basis for disease.

**B. Course prerequisites:**

All students enrolled in this course must have successfully completed (a grade of C or above) 8 semester credit hours of Human Anatomy and Physiology. Successful completion of core math, microbiology and chemistry is also a prerequisite for this class.

**C. Required textbook:**

PATHOPHYSIOLOGY - The Biological Basis for Disease in Adults and Children. 5th ed. 2005. McCance and Huether

**D. Student responsibilities and recommendations for success:**

1.) Students are responsible for all online content and assigned learning objectives.

2.) Students are responsible for reviewing anatomy and physiology.

Success in this course requires a solid knowledge of physiology and anatomy. Please plan on spending time reviewing normal physiology even if you had physiology last semester. For example, you should know (without hesitation) blood flow through the heart (chambers, valves, and major vessels). Or, for example, you need to know and completely understand how a nephron works or the numerous functions of the liver.

3.) Students are responsible for scheduling adequate time each week for learning assigned material.

Success in this course requires a considerable time commitment. On average you should plan on spending 12 hours/week (each week, not just weeks when there is an exam) studying online course materials and your text. Some students may require additional time in order to review normal physiology.

One of the challenges of an online class is staying disciplined with regards to time and effort put into a class. It is very easy to put off studying only to have to study twice as much the next week. I recommend that you schedule specific times into your week that is reserved for studying this class,

just as if you were in a regular campus class.

4.) Students are responsible for taking all quizzes and exams when scheduled.

Extensions will be given for completing quizzes/exams only under extraordinary circumstances, like a medical emergency. Under these circumstances, students must contact me before a quiz or exam closes in order to have an extension granted. For example, if an exam is opened from Sept 11<sup>th</sup>, 8 am until Sept 13<sup>th</sup> 6 pm and you are unable to take the exam, you must contact me by Sept 13<sup>th</sup> 6 pm to request an extension. If I'm contacted after the exam has already closed, a time extension will not be granted.

5.) Students are responsible for identifying and scheduling a proctor for each quiz and exam one week prior to the quiz or exam.

Each quiz and exam will be proctored at the site of the student's choice. Students who live close to LCSC Outreach Centers, such as Grangeville or Kooskia may take their exams there. The following link provides information about proctors for distance learning. [http://www.lcsc.edu/dl/dl\\_proctors.htm](http://www.lcsc.edu/dl/dl_proctors.htm)

It is up to each student to locate a site and proctor for each quiz/exam and then complete their quiz/exam on time. Students should contact LCSC Distance Learning to make arrangements. Distance Learning must have at least one week to make arrangements. Arrangements must be made for EACH quiz and exam. **Students who do not make arrangements accordingly will not be allowed to take their quiz or exam at a later date.** Distance Learning can be contacted at: 208-792-2239 or [dl@lcsc.edu](mailto:dl@lcsc.edu). Please visit the following link for more information: <http://www.lcsc.edu/dl/default.htm>

6.) Students are responsible for checking the Blackboard (BbCE) site regularly for both email and announcements.

I recommend that you check the BbCE daily for email or class announcements.

**E. Evaluation:**

Final grades will be based entirely on scores earned on three exams and 6 quizzes. Each exam will be worth 100 points and each quiz will be worth 25 points. Final grades will be based on the following:

93-100% = A    90-92% = A-    87-89% = B+    83-86% = B    80-82% = B-    77-79% = C+  
73-76% = C    70-72% = C-    67-69% = D+    60-66% = D    less than 60% = F

Drop slips will not be signed after October 31, 2008.

**F. Instructor Information**

Please use the email within BbCE to contact me. At a minimum, I'll check and respond to email every morning (M-F) at 8 am. I will be putting a large amount of information on the Blackboard site. Please let me know if you are unable to access required information or if there seems to be any sort of error with any information. I will be as responsive as possible to your requests or your inquiries. Quizzes and exams will be graded in a timely manner. You will have all quizzes and exams returned to you no later than one week from the time you took the quiz or exam.

If you need course adaptations or accommodations because of a disability, please contact me.

**G. Course content, tentative lecture schedule and chapter references.**

Week	Week Beginning	Content	Quiz/Exam	Chapter Reference
1	Aug. 25	Cell and Tissue Injury/ Inflammation		Chp. 2/6
2	Sept. 2	Inflammation/Tumor Biology		Chp. 6/11
3	Sept. 8	Tumor Biology	Quiz 1 Chp. 2 and 6	Chp. 11/12
4	Sept. 15	Fluid imbalances/ electrolyte imbalance	Quiz 2 chp 11 and 12	Chp. 3
5	Sept. 22	Electrolyte/pH imbalances		Chp 3
6	Sept. 29	Hematological disorders	Exam I Chp 2,6,11,12 and 3	Chp. 26/27
7	Oct. 6	Finish hematological disorders/Cardiovascul ar Disorders		Chp. 26/27/30
8	Oct. 13	Cardiovascular Disorders	Quiz 3 chp. 26 and 27	Chp. 30
9	Oct. 20	Cardiovascular Disorder/Pulmonary		Chp. 30
10	Oct. 27	Pulmonary Disorders	Quiz 4 Chp. 30	Chp. 33
11	Nov. 3	Renal Disorders	Exam II Chp. 26,27, 30 and 33	Chp. 36
12	Nov. 10	Shock/Liver Diseases		Chp. 46/39
13	Nov. 17	Liver Diseases/Diabetes	Quiz 5 Chp. 36/46	Chp. 39/21
14	Dec. 1	Diabetes/Thyroid Diseases		Chp. 21
15	Dec. 8	Stress/neurological disorders	Quiz 6 21 and 16	Chp. 10/16/17
16	Dec. 15		Exam III Chp. 36,46, 39, 21, 10, 16	

Academic honesty statement from the LCSC Student Code of Conduct:

Cheating or plagiarism in any form is unacceptable. The College functions to promote the cognitive and psychosocial development of all students. Therefore, all work submitted by a student must represent his/her own ideas, concepts and current understanding. Academic Dishonesty includes:

- a) Cheating—intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise. The term "academic exercise" includes all forms of work submitted for credit hours.
- b) Fabrication—intentional and/or unauthorized falsification or invention of any information or the source of any information in an academic exercise.
- c) Collusion facilitating academic dishonesty—intentionally or knowingly helping or attempting to help another to commit an act of Academic Dishonesty.
- d) Plagiarism—the deliberate adoption or reproduction of ideas or words or statement of another person as one's own without acknowledgment.

The sanctions imposed for a violation of this section of the Code are independent of, and in addition to, any adverse academic evaluation which results from the student's conduct. The course instructor is responsible for academic evaluation of a student's work and shall make that evaluation without regard to any disciplinary action which may or may not be taken against a student under the Student Code of Conduct.