

PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

PATHOPHYSIOLOGY
BIOL 2210

Class Hours: 2.0

Credit Hours: 2.0

Laboratory Hours: 0.0

Date Revised: Fall 2010

Catalog Course Description:

An introduction to the disease processes and mechanisms of the human body and to the dysfunction of the body's systems.

Entry Level Standards:

Eligible enrollment in ENGL 1010 and completion of DSPM 0890.

Prerequisites:

None

Textbook(s) and Other Course Materials:

Pathophysiology: The Biologic Basis for Disease in Adults and Children. McCance and Huether.

I. Week/Unit/Topic Basis:

Week	Topic
1	The Cell; Cell Biology; Altered Cells & Tissues; The Cellular Environment
2	Genes and Gene Environment Interaction
3	Mechanisms of Self Defense; Cellular Proliferation: Cancer
4	Exam I
5	The Neurologic System
6	The Endocrine System
7	The Reproductive System
8	Exam II
9	The Hematologic System
10	The Cardiovascular and Lymphatic Systems
11	The Pulmonary System; Exam III-Take Home Exam

- 12 The Renal and Urinary Systems
- 13 The Digestive System
- 14 The Musculoskeletal System
- 15 The Integumentary System
- 16 Final Exam over Week 12-15

II. Course Objectives*:

- A. Demonstrate a knowledge of the cell, its environment, and its genetic mechanism. I.5
- B. Demonstrate a knowledge of the body's basic defense mechanisms. I.5
- C. Demonstrate a basic knowledge of cancer development and metastasis. I.5, III.2
- D. Demonstrate a knowledge of pathological situations within the following systems: I.5, II.2
 - Nervous Respiratory
 - Endocrine Urinary
 - Reproductive Digestive
 - Circulatory Muscular
 - Lymphatic Skeletal
 - Integumentary

*Roman numerals after course objectives reference TBRs general education goals.

III. Instructional Processes*:

Students will:

- 1. Use critical thinking to solve medical case histories and other related problems. *Problem Solving and Decision Making Outcome, Communication Outcome*
- 2. Locate and become more proficient at using medical resources in the library and on the World Wide Web. *Information Literary Outcome, Technological Literacy Outcome*
- 3. Participate in group activities to facilitate cooperative learning. *Active Learning Strategies*
- 4. Use related laboratory equipment and tools for making physiological measurements and observations. *Technological Literary Outcome, Numerical Literary Outcome*
- 5. Develop a body of knowledge that helps ensure success in upper-level health-related classes and careers. *Transitional Strategy, Personal Development Outcome*

*Strategies and outcomes listed after instructional processes reference TBRs goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.

IV. Expectations for Student Performance*:

Upon successful completion of this course, the student should be able to:

- 1. Link basic cellular operation to immunity. A, B
- 2. Link errors in basic cellular operation to cancer development. A, B, C

3. Link operation and inoperation of the immune system to cancer. B, C
4. Recognize specific pathological states related to the nervous system. D
5. Recognize specific pathological states related to the reproductive system. D
6. Recognize specific pathological states related to the circulatory system. D
7. Recognize specific pathological states related to the lymphatic system. D
8. Recognize specific pathological states related to the integumentary system. D
9. Recognize specific pathological states related to the respiratory system. D
10. Recognize specific pathological states related to the urinary system. D
11. Recognize specific pathological states related to the digestive system. D
12. Recognize specific pathological states related to the muscular system. D
13. Recognize specific pathological states related to the skeletal system. D

*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures: 80% of grade

Exams I, II, III and IV are worth 80 points each

B. Laboratory Expectations:

N/A

C. Field Work:

N/A

D. Other Evaluation Methods: 20% of grade

Outside assignments, 40points

E. Grading Scale:

90%--100% = A

80%--89% = B

70%--79% = C

60%--69% = D

>60% = F

VI. Policies:

A. Attendance Policy:

Pellissippi State Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course.

B. Academic Dishonesty:

Plagiarism or cheating will not be tolerated. Students will receive a zero for the assignment. A second offense will result in automatic failure of the course.

C. Accommodations for disabilities:

Students who need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins 127, 132, 134, 135, 131 or by phone: 539-7153 or TTY 694-6429. More information is available at www.pstcc.edu/departments/swd/.

D. Other Policies:

Visitors: No visitors are allowed in lecture unless given permission by the instructor.