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 Learning Support Math.

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:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>The Cell; Cell Biology; Altered Cells &amp; Tissues; The Cellular Environment</td>
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<tr>
<td>2</td>
<td>Genes and Gene Environment Interaction</td>
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<td>3</td>
<td>Mechanisms of Self Defense; Cellular Proliferation: Cancer</td>
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<td>4</td>
<td>Exam I</td>
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<td>5</td>
<td>The Neurologic System</td>
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<td>6</td>
<td>The Endocrine System</td>
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<td>7</td>
<td>The Reproductive System</td>
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<td>8</td>
<td>Exam II</td>
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<td>9</td>
<td>The Hematologic System</td>
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<tr>
<td>10</td>
<td>The Cardiovascular and Lymphatic Systems</td>
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<td>11</td>
<td>The Pulmonary System; Exam III-Take Home Exam</td>
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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, 40 points

E. Grading Scale:

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

VI. Policies:

A. Attendance Policy:

Pellissippi State expects students to attend all scheduled instructional activities. As a minimum, students in all courses (excluding distance learning courses) must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the
course. Individual departments/programs/disciplines, with the approval of the vice president of Academic Affairs, may have requirements that are more stringent. In very specific circumstances, an appeal of the policy may be addressed to the head of the department in which the course was taken. If further action is warranted, the appeal may be addressed to the vice president of Academic Affairs.

B. Academic Dishonesty:

Academic misconduct committed either directly or indirectly by an individual or group is subject to disciplinary action. Prohibited activities include but are not limited to the following practices:

• Cheating, including but not limited to unauthorized assistance from material, people, or devices when taking a test, quiz, or examination; writing papers or reports; solving problems; or completing academic assignments.
• Plagiarism, including but not limited to paraphrasing, summarizing, or directly quoting published or unpublished work of another person, including online or computerized services, without proper documentation of the original source.
• Purchasing or otherwise obtaining prewritten essays, research papers, or materials prepared by another person or agency that sells term papers or other academic materials to be presented as one’s own work.
• Taking an exam for another student.
• Providing others with information and/or answers regarding exams, quizzes, homework or other classroom assignments unless explicitly authorized by the instructor.
• Any of the above occurring within the Web or distance learning environment.

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 http://www.pstcc.edu/sswd/.

D. Other Policies:

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