PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

HUMAN ANATOMY & PHYSIOLOGY II
BIOL 2020

Class Hours: 3.0  Credit Hours: 4.0
Laboratory Hours: 3.0  Revised: Fall 2013

Catalog Course Description:

A study of the anatomy and physiology of blood and the circulatory, immune, respiratory, digestive, excretory, endocrine, and reproductive systems. Course includes three hours of lecture and three hours of laboratory applications each week.

Entry Level Standards:

Eligible for enrollment in ENGL 1010 and MATH 1530.

Prerequisites:

BIOL 2010

Textbook(s) and Other Course Materials:

   Note: Textbook is bundled with the following required materials in PSCC bookstore:
3. Two Atlases by Martini and Marieb,
4. Interactive Physiology CD (accessible through Mastering A&P also)
5. PAL 3.0 CD (accessible through Mastering A&P also)
6. Student Access Kit to Mastering A&P (can be purchased separately through at www.masteringaandp.com ~ $50)

Cost of bundle in PSCC bookstore ~ $237.00.

Roberts.  Bluedoor Publishers. 2012. (~$75 at PSCC bookstore only)


I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture Topic</th>
<th>Lab Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Endocrine System, Ch.18</td>
<td>Endocrine System, Ch. 1</td>
</tr>
<tr>
<td>2</td>
<td>Endocrine, Ch 18 cont.</td>
<td>Reproduction Ch. 2</td>
</tr>
</tbody>
</table>
II. Course Goals*:

This course is the second half of a sophomore level human anatomy and physiology sequence, primarily dealing with the structure and function of several internal body systems. Students will develop:

The course will

A. An understanding of the relationship between cells, tissues, organs, and systems. (V4)

B. An understanding of the relationship between structure and function for each system covered. (V4)

C. A body of knowledge regarding the anatomy and physiology of the human systems covered. (V4)

D. An understanding of the homeostatic control of the human systems covered. (V4)

E. An understanding of how the systems covered function holistically to control the functioning of the human body. (V4)

F. An understanding of the relationship between abnormal anatomy and/or physiology and health-related problems. (V4, V5)

G. An ability to use medical resources to aid in the analysis of medical data and determination of a diagnosis and treatment of some health problems. (V2, V3, V4)

H. An understanding of various laboratory techniques and equipment common to the study of anatomy and physiology. (V1)

*Roman numerals after course objectives reference goals of the General Education Goals of the Natural and Behavioral Science department/program.
III. Expected Student Learning Outcomes*:

Students will be able to:

1. Explain the anatomy and physiology of the following systems: (C,A,B)
   A. Endocrine
   B. Cardiovascular
   C. Immune
   D. Lymphatic
   E. Respiratory
   F. Digestion
   G. Urinary
   H. Reproductive

2. Explain the homeostatic mechanisms involved in controlling the systems above. (D)

3. Describe how many of the body systems work holistically to control the functioning of the body. (E)

4. Interpret and analyze simple medical data. (F,G)

5. Consult leading medical references to aid in the understanding the diagnosis and treatment of health problems. (F,G)

6. Use the compound microscope to examine tissues and recognize various structures of tissues. (H,C,A)

7. Identify various anatomical parts on pictures, models and the cadaver. (C,H,A)

8. Perform various laboratory techniques, such as white blood cell count and urinalysis, successfully. (H)

* Capital letters after Expected Student Learning Outcomes reference the course goals listed above.

IV. Evaluation:

A. Testing Procedures:

There will be 5 lecture exams and 4 laboratory practical exams. The lecture exams will be made of multiple choice, short answer and/or essay questions, while the laboratory practical exams will be all short answer exams. All lecture exams are worth 100 points and all laboratory practical exams are worth 50 points. In laboratory, there will be an additional 50 points of lab activities. In lecture, there will be a 50 point comprehensive assignment, 100 points of instructor discretion points (quizzes, assignment, etc.), and 100 points of unit projects given throughout the semester.

Exam Ch. 18, 28 = 100 pts.       Exam Ch. 24, 25 = 100 pts.
Exam Ch. 20, 21 = 100 pts.       Comprehensive Assn. = 50 pts.
Exam Ch. 19, 22 = 100 pts.       Exam Ch. 23, 26, 27 = 100 pts.
Instructor Points = 100 pts.     Unit Projects = 100 pts.

Lecture is worth 750 points or 75% of the grade.

B. Laboratory Expectations:

Students are expected to attend lab every week and complete the laboratory activities assigned
to each lab. Student work will be checked by the lab instructor before the student may leave the laboratory each week. Completed laboratory activities are worth 20% of the lab grade. The remainder of the laboratory grade is earned on the laboratory practical exams worth 80% of the lab grade.

Practical 1 = 50 pts.
Practical 2 = 50 pts.
Practical 3 = 50 pts.
Practical 4 = 50 pts.
Lab Activities = 50 pts
Laboratory is worth 250 points or 25% of the grade.

C. Field Work:

Case Histories/Unit Projects assigned in lecture require research using reference books in the library or on the World Wide Web.

D. Other Evaluation Methods:

Extra Credit is not available for this course.

E. Grading Scale:

There will be a total of 1000 points offered in the course (750 pts. in lecture, 250 pts. in laboratory). In order to pass the course, the student must earn 60% of the points offered in both lecture and laboratory sections of the course. If this has been achieved, then the points earned from lecture and laboratory will be added together and compared to the following grading scale:

900-1000 points (90%-100%) = A
870-899 points (87-89.9%) = B+
800-869 points (80-86.9%) = B
770-799 points (77-79.9%) = C+
700-769 points (70-76.9%) = C
600-699 points (60-69.9%) = D
599 or less points (<60 %) = F

V. 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.

Please see the Pellissippi State Policies and Procedures Manual, Policy 04:02:00 Academic/Classroom Conduct and Disciplinary Sanctions for the complete policy.

C. Accommodations for disabilities:

Students that 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 sending email to disabilityservices@pstcc.edu, or visiting Goins 127, 132, 134, 135, 131. More information is available at http://www.pstcc.edu/sswd/.

D. Other Policies:

Classroom Misconduct: (refer to PSTCC catalog for more comprehensive list)

The Instructor has primary responsibility for control over classroom behavior and can order the temporary removal of any student engaged in disruptive behavior. Please observe rules of mutual respect and courtesy to ensure that everyone has the opportunity to get the most from the class. Students should not leave in the middle of class unless it is an emergency, carry on private conversations, or use a computer, except for taking class notes. The use of cell phones is not allowed during class unless the teacher is informed of a pending emergency. These behaviors are distracting, disruptive, inconsiderate, and may cause others to miss important information. Additional descriptions of infractions and sanctions may be found at http://www.pstcc.edu/ppm/pdf/04-02-00.pdf