

Anatomy and Physiology II
BSC 2094C CRN 24496
Spring 2014

INSTRUCTOR: Dr. Leesa L. Sward

OFFICE: Room 249

OFFICE HOURS: Class meeting weeks: Friday: 7:00a-8:30a; Fri. 11:15pm-1:00pm; Non class meeting weeks M, T, W, R, F: virtual hours 9:30am-10:30 am; other times by appointment

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CLASS MEETS: 8:30a-11:15a; Friday 1/10; 1/17; 1/31; 2/21; 2/28; 3/21; 3/28; 4/18; 4/25; Room 221; Winter Park Campus; Credits: 4; (Class 3; Lab 3)

REQUIRED TEXT: Principles of Anatomy and Physiology 13th ed. Tortora and Derrickson. And WileyPlus access code; code comes with the purchase of a new textbook; Used books must purchase access code (available through Wiley publisher at www.wileyplus.com) ;

Blackboard 9.1: This is a Blackboard hybrid class, the website can be accessed by logging on to <http://learn.valenciacollege.edu> You will use your Atlas account ID and password to access the course syllabus, medical scenarios, labs, handouts, and a link to WileyPlus.

WileyPlus: This is an online tool that provides students with an integrated suite of learning resources in one easy to use website. WileyPlus is supported by your textbook publishers and includes an online version of your textbook. The registration information is posted on the content page of our course on Blackboard.

Prerequisites: Minimum grade of C in BSC 2093C or department approval.

COURSE DESCRIPTION: Continuation of BSC 2093C, including circulatory, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems with considerable emphasis on biochemistry of metabolic processes and body fluids.

LEARNING OUTCOMES FOR COMBINED LECTURE/LAB BIOLOGICAL SCIENCES:

The following learning outcomes describe what students should know and/or be able to do with their new knowledge at the end of this course.

Learning Outcomes	Assessments/Activities	Valencia's Core Competencies
Students will be able to identify the major organs of the cardiovascular system and describe the functions of each	Lab activities Medical Scenarios Exams Online assignments	Think, Communicate, Act
Students will be able to identify the major organs of the lymphatic system, describe their functions, and the steps of the immune response.	Lab Activities Exams Online assignments	Think, Communicate, Act
Students will be able to identify the major organs of the respiratory system and describe the functions of each.	Lab activities Medical Scenarios Exams Online assignments	Think, Communicate, Act
Students will be able to identify the major organs of the digestive system and describe the function of each.	Lab Activities Medical Scenarios Exams Online assignments	Think, Communicate, Act

Students will be able to explain the detailed principles of metabolism, including the mechanisms by which nutrients are ingested, processed, and utilized by the body.	Lab Activities Online assignments Medical scenarios Exams	Think, Communicate, Act
Students will be able to identify the major organs of the urinary system and describe the functions of each	Lab Activities Online assignments Medical scenarios Exams	Think, Communicate, Act
Students will be able to explain the regulation of the volume and composition of body fluids, their distribution throughout the body, and balancing the pH of body fluids.	Lab Activities Online assignments Exams	Think, Communicate, Act
Students will be able to identify the major organs of the reproductive system and describe the functions of each	Lab Activities Online assignments Medical scenarios Exams	Think, Communicate, Act
Students will be able to explain the role of inherited genetic material and development in the uterus in determining the homeostasis of a developing embryo, fetus and birth of a healthy child.	Lab Activities Online assignments Exams	Think, Communicate, Act

COMPETENCIES:

Valencia faculty defined four interrelated competencies (Value, Think, Communicate, Act) that prepare students to succeed in the world community. These competencies are outlined in the College catalog. This course will further develop your mastery of these core competencies through classroom lecture and discussion, group work, and class activities.

WITHDRAWAL DEADLINE: The deadline for withdrawing from this class with a grade of W is Friday, March. 21, 2014. Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline. A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W.” Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F.” For a complete policy and procedure overview on Valencia Policy 4-07 please go to: <http://valenciacollege.edu/generalcounsel/policydetail.cfm?RecordID=75>.

EVACUATION: Please make note of evacuation route from your classroom in case of emergency. Interpret all audible alarms as valid and act accordingly.

GRADING SCALE:

The final grade will be determined as a percentage of total possible points earned. Letter grades will be assigned according to the following scale:

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

GRADE COMPOSITION: (approximate point values—subject to change)

1. Medical Scenarios (6 x 26 points = 156 pts.)
2. Labs including pre-lab homework (TBA pts)
3. WileyPlus assignments (11x 10pts =110 pts)
4. Exams: Chapter exams(7@45-80pts = 410pts); comprehensive final exam(100pts); final practical exam(100 pts)

GRADING POLICIES:

If a student completes the final exams, the grade earned for the course will be recorded with the registrar. If a student decides to withdraw prior to completion of the final exam, it is the student's responsibility to complete official procedures through the registrar's office.

1. All assignments must be completed before each class.
2. No late or missed exams accepted
3. There are no makeup labs.
4. No Late work accepted.

ACADEMIC HONESTY:

1. Each student is expected to be in compliance with the college catalog and student handbook.
2. Any student who cheats on any assignment will receive a zero and may be subject to withdrawal from the class.
3. Students are expected to do their own work

ATTENDANCE:

1. Students are expected to attend all classes
2. Missed exams and lab assignments cannot be made up.

HANDOUTS:

1. Some supplemental material will be handed out during class. All other materials will be posted on Blackboard.
2. If you are absent from the class when handouts are distributed, make arrangements to get them from another student or access them from Blackboard

CLASS ETIQUETTE/STUDENT CODE OF CONDUCT (See posting in classroom)

1. All cell phones must be silent during class.
2. Be respectful of others' right to learn.
3. Respect your classmates' right to have opinions that differ from your own.

SPECIAL NEEDS:

1. Students with disabilities who qualify for academic accommodations must provide a letter from the office for **Students with Disabilities (OSD)** and discuss specific needs with the professor, preferably during the first two weeks of class. The office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities (Winter Park Campus, room 203; (407-582-6887).
2. Please follow the college policy relating to children on campus and make arrangements for childcare outside of classrooms or labs.
3. Valencia College is interested in making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. **BayCare Behavioral Health Student Assistance Program (SAP)** services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available.

CHAPTER AND FINAL EXAMS:

All exams will be administered in Valencia College testing centers. Make sure to check testing center days and hours of operation before you plan to take your exam. You will need to bring your Valencia ID to be allowed to take any exam. You must take each exam during the assigned time period. Plan ahead, the dates of all exams are in the syllabus. If you fail to take your exam(s) you will receive a zero for the exam(s). No make ups for missed exams.

Blackboard 9.1:

This is our college online tool for accessing and managing our class communication and assignments. Once you have logged on to Blackboard with your Atlas user name and password you can access our class. When you click on our class you will be in the content area. The content area contains our Labs and Medical Scenarios folders.

Labs:

Some of the labs have a pre-lab section that should be completed before you come to class. The remainder of the lab is to be completed in class and then handed in at the end of class. Labs will be graded for accuracy and completeness.

Medical Scenarios:

The Medical Scenario write-ups are to be submitted online. **Compose your write-ups offline and then copy the write-up and paste it in the submission area of the assignment.** I will use the "Final Assessment Rubric" to grade your scenario. Your scenarios are to be in paragraph form with in-text citation. Each section of the scoring rubric should be represented as a separate paragraph in your final write up. To complete the scenarios I recommend you use the Merck Manual Home Edition. It can be found online at <http://www.merck.com/mmhe/index.html>

Tools:

We will use the “In Class Mail” function to communicate with the instructor or other students in this class

Studying with Wileyplus: Wileyplus offers resources for every learning style. Take advantage of all the resources provided by the Wileyplus software...not just the assigned work. Under the “Read, Study, Practice” tab, select the chapter to study, then select “Browse by study objectives.” Work through all of the resources available. After completing the exercises, determine which ones are most beneficial to your personal learning style and use them for reviewing prior to our class exams. The “practice” exercise will help you with interpreting and comprehending the wording of our test questions.

WileyPlus Assignments:

These assignments are located on WileyPlus. You will login to WileyPlus to access these assignments. Go to the assignment tab for each chapter. Under this tab you will find the assigned work for that chapter. Complete the work online by the due date to receive credit. Each of these assignments is given credit based on level of completion (you must score 70% or better on the post lecture quiz and anatomy drill and 100% on all other assignments to receive full credit). See point allocation below

Completed all work	Completed most of the work	Completed 50% of the work	Completed less than 50%
10pts	8pts	5pts	0pts

Student Grade Sheet

Coursework	Due Date	Possible points	Points earned
Cardio Lab	1/10		
Wiley Ch. 19	1/16		
Lab Blood typing and Heart	1/17		
Wiley Ch. 20	1/23		
Exam Chapters 19 & 20	1/29		
Wiley Ch. 21	1/30		
Lab Blood Vessels	1/31		
Medical Scenario: Cardiovascular	2/3		
Exam chapter 21	2/12		
Wiley Ch. 22	2/20		
Lab Lymphatic system	2/21		
Medical Scenario: Immune	2/24		
Exam Ch. 22	2/26		
Wiley Ch. 23	2/27		
Lab Respiratory system	2/28		
Medical Scenario: Respiratory	3/10		
Exam Chapter 23	3/12		
Wiley Ch. 24	3/13		
Wiley Ch. 25	3/20		
Lab Digestive and nutrition	3/21		
Medical Scenario: Digestive	3/24		
Exam chapters 24 & 25	3/26		
Wiley Ch. 26	3/27		
Lab Urinary system and Fluids	3/28		
Medical Scenario: Urinary	3/31		
Wiley Ch.27	4/3		
Exam Chapters 26 & 27	4/4		
Wiley Ch. 28	4/10		
Medical Scenario: Reproduction	4/14		
Wiley Ch. 29	4/17		
Lab Reproductive system	4/18		
Exam Chapters 28 & 29	4/23		
Final Practical exam	4/25		
Written Final Exam	4/25		
	Totals		

Tentative Schedule

Date		Topics	Labs	Exams
Jan. 10	Class meets room 221 Winter Park Campus	Introduction to course: Printout and read Syllabus Login to Blackboard and go our course content page and locate the WileyPlus Registration information sheet. Follow the instructions and register for Wileyplus. Begin completing Wileyplus assignments.	Cardiac and Blood pressure lab to be completed in class	
Jan. 11-16	Online/out of class	WileyPlus assignments: Assignment Zero: Intro to WileyPlus due 1/16 <i>Chapter 19 online homework due 1/16</i> Readings; Powerpoint; pre-lecture quiz; Post-lecture quiz; anatomy drills Blackboard: Lab: Complete Pre-lab for Blood typing and Heart Lab due 1/17 (Printout Blood Typing and Heart lab and Blood Vessels lab; Bring all of these to class 1/17)		
Jan. 17	Class meets	Ch. 19 & 20 Blood and The Heart (How to complete Medical Scenario)	Blood Typing and Heart	
Jan. 18- 30	Online/out of class	WileyPlus assignments: <i>Chapter 20 online homework due 1/23</i> Readings; Powerpoint; pre lecture quiz; Post-lecture quiz; anatomy drills <i>Chapter 21 online homework due 1/30</i> Readings; Powerpoint; pre-lecture quiz; Post-lecture quiz; anatomy drills; Blackboard Lab: Complete Pre-lab for Blood Vessel lab due 1/31		Exam Ch. 19&20 due 1/29
Jan. 31	Class meets	Ch. 21 Blood Vessels	Blood vessels	
Feb. 1-20	Online/out of class	Blackboard: Medical Scenario: Cardiovascular system due 2/3 (Merck Manual online sections Blood disorders; Heart and Blood Vessel Disorders) WileyPlus assignments <i>Chapter 22 online homework due 2/20</i> Readings; Powerpoint; pre lecture quiz; Post-lecture quiz; anatomy drills Blackboard: Lab: Complete pre-lab for Lymphatic system due 2/21		Exam Ch. 21 due 2/12

Feb. 21	Class meets	Ch. 22 Lymphatic system	Lymphatic system	
Feb. 22-27	Online/out of class	<p>Blackboard: Medical Scenario: Immune system due 2/24 (Merck Manual online section Infections)</p> <p>WileyPlus assignments <i>Chapter 23 online homework due 2/27</i> Readings; Powerpoint; pre lecture quiz; anatomy drills; Post-lecture quiz;</p> <p>Lab: Complete pre-lab for Respiratory lab due 2/28</p>		Exam Ch. 22 due 2/26
Feb. 28	Class meets	Ch. 23 Respiratory system	Respiratory system	
Mar. 1-20	Online/out of class	<p>Blackboard: Medical Scenario: Respiratory system due 3/10 (Merck Manual online section Lung and Airway Disorders)</p> <p>WileyPlus assignments <i>Chapter 24 online homework due 3/13</i> Readings; Powerpoint; Post-lecture quiz;</p> <p>WileyPlus assignments <i>Chapter 25 online homework due 3/20</i> Readings; Powerpoint; Pre- lecture quiz; Post-lecture quiz; anatomy drills;</p> <p>Blackboard: Lab: Complete pre-lab for Digestive and nutrition lab due 3/21</p>		Exam Ch. 23 due 3/12
Mar. 21	Class meets	Ch. 24 &25 Digestive system and Nutrition	Digestive and nutrition	
Mar. 22-27	Online/out of class	<p>Blackboard: Medical Scenario: Digestive system due 3/24 (Merck Manual online section Digestive Disorders)</p> <p>WileyPlus assignments <i>Chapter 26 online homework due 3/27</i> Readings; Powerpoint; pre lecture quiz; anatomy drills; Post-lecture quiz;</p> <p>Blackboard: Lab: Complete pre-lab for Urinary system and Fluids lab due 3/28</p>		Exam Ch. 24&25 due 3/26

Mar 28	Class meets	Ch. 26 &27 Urinary system and Fluids	Urinary system and Fluids	
Mar. 29- Apr. 17	Online/out of class	<p>Blackboard: Medical Scenario: Urinary system due 3/31 (Merck Manual online section Kidney and Urinary Tract Disorders)</p> <p>WileyPlus assignments <i>Chapter 27 online homework due 4/3</i> Readings; Powerpoint; Pre- lecture quiz; Post-lecture quiz; anatomy drills;</p> <p><i>Chapter 28 online homework due 4/10</i> Readings; Powerpoint; pre lecture quiz; anatomy drills; Post-lecture quiz;</p> <p>Blackboard: Medical Scenario: Reproductive system due 4/14 (Merck Manual online Section: Men's Health Issues; Women's Health Issues)</p> <p>WileyPlus assignments <i>Chapter 29 online homework due 4/17</i> Readings; Powerpoint; pre lecture quiz; anatomy drills; Post-lecture quiz;</p> <p>Blackboard: Lab: Complete pre-lab for Reproductive system lab due 4/18</p>		Exam Ch. 26&27 due 4/4
Apr. 18	Class meets	Ch. 28 Reproductive system Ch. 29 Human Development Review for Practical Exam	Reproductive; Human Development	
Apr. 19-24	Online/out of class	Review for Practical and Written Exam		Exam ch. 28 &29 due 4/23
Apr. 25	Class meets	Final Practical Exam 9:00a-11:30a in room 221 Final Written Exam due by 6 pm Valencia College Testing Center 4/25	Clean up lab	Final comprehensive exam