Human Biology BSC 1020C CRN 12170 Fall 2013

INSTRUCTOR: Dr. Leesa L. Sward

OFFICE: Room 249

OFFICE HOURS: Class meeting weeks: Friday: 7:00a-8:30a; 11:30am-1:00pm; 3:45p-5:45p; Non class meeting

weeks M, T,W, R, F: virtual hours 8:30am- 9:30 am; other times by appointment

PHONE: 407-582-6925 EMAIL: lsward@mail.valenciacollege.edu FAX: 407-582-6170

CLASS MEETS: 1:00p-3:45p; Fridays 8/30; 9/6; 9/20; 10/11; 10/18; 11/8; 11/15; 12/6; 12/13; Room 221; Winter

Park Campus; Credits: 4

REQUIRED TEXT: The Merck Manual Home Health Handbook, 2009; ISBN: 978-0-911910-30-8. Online version available; http://www.merck,com/mmhe/index.html; Also an I phone App. Available.

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, assignments and handouts etc.

PRE AND COREQUISITES: None

WITHDRAWAL DEADLINE: The deadline for withdrawing from this class with a grade of W is Friday, Nov. 1, 2013. 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 A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of "W." Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of "F." For a complete policy and procedure overview on Valencia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://valenciacc.edu/generalcounsel/policydetail.cfm?RecordID=75.

COURSE DESCRIPTION:

BSC 1020C

A general education course for students not majoring in biology that is fully integrated with a laboratory that emphasizes active learning strategies. Includes study of scientific method, study of human biology with an emphasis on major organ systems and processes, human development, genetics, diseases, biochemical processes and their relation to the human body, and biological concepts underlying major societal and bioethical issues.

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 apply their knowledge of	Medical Scenarios—rubric	Think, Value,
scientific method and human biology in	Classroom Assessment Techniques	Communicate,
making decisions regarding societal and		Act
bioethical issues		
Students will explain the relationship	Medical Scenariosrubric	Think, Communicate, Act
between the human body and	Lab Activities	
biochemical processes	Concept mapping/flow chart	
	Pre-lab activities	

	Exams	
Students will describe the biological	Medical Scenarios—rubric	Think, Communicate, Act
basis of health and disease	Concept mapping/flow chart	
	Exams	
Students will demonstrate their	Medical Scenarios—rubric	Think, Communicate, Act
knowledge of genetics, inheritance and	Lab Activities—Manikens	
human body systems	Pre-lab Activities	
	Exams	
Students will demonstrate their	Medical Scenariosrubric	Think, Communicate, Act
knowledge of scientific method,	Lab Activities	
biochemistry, and cell structure and	Concept mapping/flow charts	
function	Exams	

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.

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. Scenarios ($10 \times 26 \text{ points} = 260 \text{ pts.}$)
- 2. Quizzes (7 x 20 to 30 pts.)
- 3. Homework/Labs (385 pts.)
- 4. Exams (mid-term 70 pts; final written 70 pts; final practical 50 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 homework assignments must be completed before each class.
- 2. No late or missed quizzes/exams accepted
- 3. There are no make up 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.

ATTENDANCE:

- 1. Students are expected to attend all classes
- 2. Missed in class 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.

EXAMS:

All exams (mid-term and written final) will be administered in the 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 exams you will received a zero for the exam. No make ups for missed exams.

You must show up for the final exam at the assigned time or you will receive a zero for the exam and that grade will be averaged into your cumulative average for the course.

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, Quizzes, Study Aids, and Medical Scenarios folders.

Labs:

Some of the labs have a pre-lab section (discussion questions) 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 under the "assignment" tab. **Compose your write-up offline and then copy your write-up and paste it in the submission box 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

OUIZZES:

Remember, no late quizzes accepted and no makeup quizzes. You are expected to work independently when completing each quiz.

You must have a good internet connection when taking a quiz....if your signal fails you will lose access to the quiz and only the answers you saved will be graded. Also, do not spend a lot of time looking up answers the system could time you out for lack of activity. Save each question as you complete it. You can always go back and change your answer if time permits. The quizzes are timed and must be completed before the deadline. Do not start a quiz with only a few minutes left before the deadline...the system may close you out when the timed deadline occurs. Quizzes will cover all reading material, PowerPoint slides, diagrams, vocabulary worksheets, and any other posted study materials for each week. You have two attempts to take each quiz.

After you take your quiz:

If you have questions concerning any quiz questions, or need clarification on any missed quiz items I will go over them during our next class.

Blackboard help desk recommendations for taking online quizzes and exams:

The stability of the internet can sometimes be sporadic; therefore there is always a possibility of encountering some type of error while taking an online exam. If this happens to you please contact your instructor immediately via email and inform them of your situation (be sure to include the time, course ID, and assessment title in your email). However, below are some precautions that you can take when taking your online exam:

- Make sure there is only one Blackboard session open at a time. In other words, do not have one window open
 while you are taking an exam and another open for course navigation. The multiple logins may cause an error.
- If possible please have only the browser window where you are taking the exam open. Closing all others unrelated browser windows will give you the best chance of completing your assessment without errors.
- While you are taking your exam you should also close any other programs or applications that are not essential for completely your exam (e.g. RealPlayer, MusicMatch, Adobe Photoshop, QuickTime, Microsoft Outlook, MSN Messenger etc.)
- If you have a firewall and or anti-virus software installed on your system, you may want to disable it functions while you are taking the assessment only.
- Please do not press the "Backspace" (or the "Enter") button on your keyboard or click the "Back" button on your browser during your assessment.

If you experience any issues, please contact Blackboard help for assistance by visiting the <u>Valencia</u> <u>College support center</u>, or by phone at: (407) 582-5600.

Student Grade Sheet: Human Biology

Exploring Measurement Lab	Coursework	Due Date	Possible points	Points earned
Online Medical Scenario-Genetics 9/6 Genetics Exercises 9/6 Lab: Cells and Tissue; 9/6 Quiz #1 9/7 Online: Medical Scenario-Skeletal 9/13 Lab: Basic Bone and Skeletal system 9/20 Lab Muscular System 9/20 Quiz #2 9/21 Online: Medical Scenario-Muscular 9/27 Online: Medical Scenario-Nervous sys. 10/11 Lab: Nervous system 10/12 Mid-Term Exam 10/16 Online: Medical Scenario-Cardiovascular 10/18 Lab: Cardiovascular system 10/18 Quiz #4 10/19 Online: Medical Scenario-Respiratory 10/25 Lab: Respiratory system 11/8 Lab: Digestive system 11/8 Quiz #5 11/9 Lab: Urinary system 11/15 Lab: Endocrine system 11/15 Cab: Endocrine system 11/15 Online: Medical Scenario-Endocrine 11/22 Online: Medical Scenario-Reproductive 12/6 Lab: Reproductive system	Exploring Measurement Lab			
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TENTATIVE COURSE SCHEDULE HUMAN BIOLOGY BSC 1020C

Aug. 30	In class: Go over Syllabus and class expectations; Go over scoring rubric for Medical Scenarios Study Aids: Exploring Scientific Measurement worksheet Lab Activity: Exploring Measurement and Scientific Reasoning	Readings correspond to Merck Manual Home Health Handbook 2009
Aug. 31-Sept 5	Online/out of class work Review Study Aids: reality check, weekly schedule; Barsch Cell Structure and function concept map; DNA technology worksheet Review CD Mitosis and Meiosis (tutorial) Review CD Molecular Biology (tutorial) Vocabulary Fundamentals of Genetics vocabulary; Cells and Tissue vocabulary worksheet Review power points: Genes and Medical Genetics Cell Structure and Function Tissues, organization and regulation	Ch. 3 Making the most of Healthcare p.17-28; Appendix II Medical tests p. 2116-23 Ch. 4 Prevention p. 28-45; Medical terms p. xLi +xLii Units of Measure Appendix I p. 2113-15 Ch. 1 Human body p.2-8 Ch. 2 Genetics p. 8-16 Ch. 263 Chromosomal and Genetic abnormalities p. 1726-30
	Online Medical Scenario Assignment: Genetics karyotyping for genetic disorders. Due 9/6 Homework: Genetic Exercises (Principles of Inheritance, Incomplete Dominance, Codominance, and Sex-Linked traits). Due 9/6 Homework: Cells and Tissue Lab Activity (Discussion questions due 9/6)	
Sept.6	In class: Collect homework Lab Activity: Cell Structure and Function/Tissues/organs/organ systems. CD: Systems of the Human Body (computer lab)	Quiz #1 due by Sept. 7 online in Blackboard under quizzes and exams (covers all Aug. 31- Sept. 6 material)
Sept. 7- 19	Online/out of class work: Study Aids: Directional Terminology worksheet; Basic Bones vocabulary worksheet; Review Anatomy in Clay Body Systems video in study Aids folder: Directional Terms, Skeletal, and Muscular system Review PowerPoint:	Ch. 90 Symptoms/diagnosis of Muscle disorders p. 538-44; Ch. 91 Osteoporosis p. 544-46; Ch. 96 Joint Disorders p. 559-572 Ch. 103 Muscles, Bursa, and Tendon Disorders p. 615-21 Ch. 301 Fractures p. 1952-64; Ch.302 Sports Injuries
	Skeletal system Muscular System Online Assignment: Medical Scenario Skeletal due 9/13 Homework: Basic Bones and Skeletal system Activity; Due 9/20 Homework: Muscular System Activity questions; due 9/20	p. 1965-76

Sept. 20	In class: Collect homework: Skeletal/Muscular system; Assign Manikens; Review Skeletal system; Lab: Muscular System Activity	Quiz #2 due by Sept 21 (covers all Sept 7-20 material)
Sept 21- Oct.10	Online/out of class work: Study Aids: Nervous system vocabulary worksheet; Review Anatomy in Clay Body system video: Nervous system Review PowerPoint: Nervous system Senses	Ch. 104 Biology of the Nervous system p. 623-29; Ch. 105 Diagnosis of Brain, Spinal cord, and nerve disorders p. 629-37 Ch. 107 Headaches p. 648-57; Ch. 113 Seizure disorders p.709-18; Ch. 114 Stroke p. 718-33
	Online assignment: Medical Scenario skeletal/muscular system (1) due 9/27 Online assignment: Medical Scenario Nervous system due 10/11 Homework: Nervous System Lab activity (pre-lab) due 10/11	Ch. 115 Head injuries p. 733-41; Ch. 121 Spinal cord disorders p. 793-806; Ch. 122 Low back pain p. 806-15; Ch. 185 Biology of the skin p. 1276-78 Ch. 211 Biology of the ears, nose, and throat p. 1375-78 Ch. 218 Biology of the eyes p. 1412-15
Oct. 11	In Class Collect homework: Lab: Nervous system Activity; brain, spinal cord, Vertebrae and muscle innervation;	Quiz #3 due by Oct.11 (covers all material Sept 21-Oct. 11) Mid-Term Exam due 10/16 Valencia College Testing Center
Oct 12- Oct 17	Online/Out of class assignments Study Aids: Cardiovascular system worksheet; Review Anatomy in Clay Body systems video: Cardiovascular system	Ch. 52 Biology of the heart and blood vessels p.316-20; Ch. 53 Symptoms and diagnosis of heart and blood vessel disorders p.320-33; Ch. 54 High blood pressure p.333-43
	Review PowerPoint: Cardiovascular system Blood Mid-Term Exam: due 10/16 (Covers all material through Nervous system)	Ch. 64 Atherosclerosis p. 396-401; Ch. 65 Coronary Artery disease p. 401-18 Ch. 153 Biology of Blood p. 1022-23; Ch. 154 Symptoms and diagnosis
	Online assignment: Medical Scenario Cardiovascular system Due 10/18 Homework: Cardiovascular system Activity (pre-lab) due 10/18	Ch. 154 Symptoms and diagnosis of blood disorders p. 1023-26; Ch. 155 Blood transfusion p. 1026-31; Ch. 156 Anemia p. 1031-40;

Oct. 18	In Class:	Quiz #4 due by Oct. 19
001.10	Collect homework	(covers all material Oct.12-18)
	Lab : Cardiovascular system Activity: building veins, arteries; heart	(covers an material cet.12 10)
Oct 19-	Online/out of class work	Ch. 70 Biology of Lungs and
Nov 7	Study Aids:	airways p. 444-48
	Respiratory system vocabulary worksheet;	Ch. 71 Symptoms and diagnosis of
	Digestive system vocabulary worksheet;	lung disorders p. 448-59
	Chemistry of Life Vocabulary worksheet;	Ch. 73 Bronchitis p. 461-63
		Ch. 74 Pneumonia p. 463-72
	Review Anatomy in Clay Body systems video:	Ch. 76 Asthma p. 473-80
	Respiratory system	Ch. 272 Cystic fibrosis
	Digestive system	p. 1788-92
		Ch. 88 Lung Cancer
	Review PowerPoint:	p. 528-33
	Respiratory system	Ch. 202 Biology of the Mouth
	Chemistry of Life	p. 1343-46
	Digestion and Nutrition	Ch. 17 Biology of the digestive
		system p. 110-14
	Online Assignment: Respiratory system Scenario due 10/25	Ch. 32 Biology of the liver and gall
		bladder p. 210-12
		Ch. 18 Symptoms and diagnosis of
	Homework : Respiratory system Activity (pre-lab) due 11/8	digestive disorders p. 114-32
	Homework : Digestive system Activity (pre-lab) due 11/8	Ch. 20 Peptic disorders
	0.11.4.10	p. 137-45
	Online Assignment: Digestive system scenario due 11/8	Ch. 36 Hepatitis p. 227-32
		Ch. 132 Overview of nutrition
		p. 902-13
		Ch. 140 Obesity and the Metabolic
		syndrome
		p. 951-61 Ch. 141 Disorders of cholesterol
		p. 961-69
Nov 8	In Class:	p. 701-07
11010	Collect Homework	
	Lab: Respiratory system Activity	Quiz #5 due by Nov. 9
	Lab: Digestive system Activity	(covers all material Oct. 19-Nov. 8)
Nov 9-	Online/out of class work	Ch. 40 Biology of the kidneys and
Nov14	Study Aids:	urinary tract p. 250-53
	Urinary system vocabulary worksheet;	Ch. 41 Symptoms and diagnosis of
	Endocrine system vocabulary worksheet;	kidney and urinary tract p. 253-60
	Review Anatomy in Clay Body systems video:	Ch. 49 UTI's p. 302-08
	Urinary system	Ch. 145 Biology of the Endocrine
	Endocrine system	system p. 979-83
		Ch. 147 Thyroid gland disorders
	Review PowerPoint:	p. 990-99
	Urinary system	Ch. 149 Diabetes mellitus
	Endocrine system	p. 1005-14
	Online Assignment: Urinary system scenario due 11/15	
	Homework: Urinary System Activity (pre-lab) due 11/15 Homework: Endocrine system Activity (pre-lab) due 11/15	

Nov 15	In Class:	
	Collect homework	
		Quiz #6 due Nov. 16
	Lab: Urinary system Activity	(covers all material Nov. 9-15)
	Lab: Endocrine system Activity	
Nov16-	Online/out of class work	Ch. 231 Male reproductive system
Dec 5	Study Aids:	p. 1465-68
	Reproductive system vocabulary worksheet;	Ch. 233 Prostate disorders
	Lymphatic and Immune system vocabulary worksheet;	p. 1474-82
	Infectious Disease and Cancer vocabulary worksheet;	Ch. 235 Biology of Female
		reproductive sys. p. 1491-96
	Review Anatomy in Clay Body systems video:	Ch. 239 Menstrual disorders and
	Lymphatic system	abnormal vaginal bleeding
	D · D D · A	p. 1521-29
	Review PowerPoint:	Ch. 167 Biology of the Immune System p. 1095-1104
	Reproductive system Lymphatic system	Ch. 69 Lymphatic Disorders
	Infectious disease and Cancer	p. 440-43
	infectious disease and Cancer	Ch.168 Immunodeficiency
		Disorders p. 1104-11
	Online Assignment: Endocrine system scenario due 11/22	Ch.169 Allergic Reactions
	Online Assignment: Reproductive system scenario due 12/6	p.1112-24
	, ,	Ch.172 Biology of Infectious
	Homework : Reproductive system Activity (pre-lab) due 12/6	Disease p. 1138-44
	Homework : Lymphatic system Activity (pre-lab) due 12/6	Ch.173 Immunizations
		p.1144-51
		Ch.174 Bacterial Infections
		p. 1151-85
		Ch.175 Bacteremia, Sepsis, and
		Septic shock p.1185-88 Ch.176 Antibiotics p. 1188-94
		Ch.170 Antibiotics p. 1188-94 Ch.177 Tuberculosis
		p.1194-1200
		Ch.180 Parasitic Infections
		p. 1206-29
		Ch.181 Fungal Infections p.1229-
		36
		Ch.182 Viral Infections
		p. 1236-54
		Ch.183 Human Immunodeficiency
		Virus Infections p. 1254-64
		Ch.184 Sexually Transmitted
		Diseases p. 1264-74 Ch.164 Overview of Cancer
		p. 1075-79
		Ch.165 Symptoms and Diagnosis
		of Cancer p. 1079-86
		Ch.166 Prevention and Treatment
		of Cancer p. 1086-94
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Dec 6	In Class: Collect homework Lab: Reproductive system Activity Lab: Lymphatic system Activity Review for final	Quiz #7 Due Dec. 7 (covers all material Nov. 15-Dec. 7)
Dec 7- Dec 12	Online/out of class work Final exam online in a Valencia College Testing Center due 12/13	Final Exam due 12/13 (covers all material after nervous system)
Dec 13	Final practical exam 1:00mm – 3:30pm in classroom Clean up manikens; Final exam online due 12/13 by 6pm in a Valencia College Testing Center	

^{*} Reading assignments should be completed prior to the date of the class in which they appear on the course schedule.

DISCLAIMER:

The course schedule is subject to change.