

Introduction to Human Biology
BIOL 107 (Sec. 21712 & 21716)
Shelton S. Herbert
FALL 2008 – TENTATIVE!

Catalog Description

Biology 107 is a transferable (CSU, but not UC) laboratory life science course intended to give a broad background in this area of science. Students are expected to attend both the lecture and laboratory portions of this course. Lab experiments are generally coordinated with lectures and are intended to enhance the learning process.

Instructor

Shelton S. Herbert

Contact: In Person Catch me *before* or *after* class – best way!

E-mail: scott@sheltonherbert.com
ALWAYS!!! put “VVC” in the subject line.

Blackboard: Additional resource for notes, see your current grade, etc.
You will be able to get your login and password from Academic Commons

Instructor’s class website: www.sheltonherbert.com (Click “Biol 107” button)

**** Notify instructor of any difficulty in using the additional online resources! ****

Textbooks

Required:

1. TEXT BOOK: Johnson, Michael D. 2007. 4th ed. *Human Body: Concepts and Current Issues*.
2. LAB BOOK: Atsma, B., and S. Hsu. 2007. 4th ed. *Laboratory Manual for Human Biology*.
3. LECTURE NOTES: Blackboard or www.sheltonherbert.com (Click “BIOL107” button)
4. BIOLOGICAL DISSECTING KIT: 1 kit will be needed per table
(purchase in late summer as instructed)
5. RUBBER GLOVES: 1 Box per table (optional, but *highly* recommended)

**** I reserve the right to modify the syllabus at any time! Any change will be announced, however, it is the student’s responsibility to aware of any changes made to the syllabus ****

Course Description

Biology 107 is an introductory course in biological principles with a human perspective. Emphasis is on cellular structure and function, organ systems, homeostasis, adaptation, cell and population genetics and the interaction of the human species with the ecosystem.

Prerequisites

None for this class.

<u>SECTION</u>		<u>LECTURE</u>	<u>LAB</u>
21712	Lecture Time:	M-W: 8a - 9:25a	Monday: 9:25a - 12:35p
21716	Lecture Time:	M-W: 8a - 9:25a	Wednesday: 9:25a - 12:25p
	Room No:	Libral Arts-18	Science-3

Important Dates

<http://www.vvc.edu/schedule/fall2008/dates.htm>

AUG	25	Fall session begins
SEP	1	Labor Day - No Classes
SEP	5	Last day to add a 16-week course with instructor permission
SEP	8	Last day to drop a 16-week for a refund
SEP	17	Last day to drop 16-week class <i>without</i> a "W"
SEP	19	Last day to submit a CR/NC grade option for a 6-week or 8-week class
NOV	10	Vetern's Day - No Classes
NOV	4	Last day to drop a 16-week full-term class and <i>receive</i> a "W"
DEC	13	16-week spring session classes end

Course Purpose

This course provides the student with a survey of the structures of the human body. The student will be introduced to the organization of the human body from the characteristics of life through the integration and coordination of bodily activities. These skills and concepts are highly advantageous for anyone wishing to take more advanced anatomy related courses required by the Allied Health professions.

Attendance

Attendance is the responsibility of the student. Failing to attend the first day of class and you are subject to being dropped (pg.29 Victor Valley College Student Handbook). If you decide to not attend, it is YOUR responsibility to officially drop the course by the designated time (check with admissions) to avoid a letter grade.

** BE ON TIME! Late arrivals are disruptive and can adversely affect your grade.

** Missed quizzes and participation points can NOT be made up!

** NOTE: The instructor reserves the right to drop any student who is absent for more than 1 hour's worth of the class meeting time (Biol 107 is a 4 hour credit class – Victor Valley College Catalog 2007-2008).

Grading Policy

Evaluation is based upon cumulative percentages derived from:

Grade Scale:

<u>LETTER GRADE</u>	<u>FINAL GRADE</u>	
A = 90 - 100%	Exams (Pratica & Lecture)	80%
B = 80 - 89%	Quizzes & Lab Participation	20%
C = 70 - 79%		
D = 60 - 69%		

Grades are not “curved” in this course. Your score will be the one you *earn*. Grades are non-negotiable! While the instructor is happy to talk with you about your progress, bear in mind that any attempt to bargain, coerce or otherwise manipulate your grade will not to be allowed.

Quizzes: (Use *Scantron 815-E*)

Quizzes will be unannounced and may occur at any class or lab period. Although quizzes will usually be administered at the end of the period, they may be given at any time during those period.

Exams

Plan to take the exams and quizzes when they are given! Questions for the quizzes and exams originate from lecture, lab, and assigned reading. Plan on a quiz each time we meet for lecture and lab. Missed quizzes may *not* be taken later. A missed lab practical may not be made up. One missed lecture exam may be made up during the last week of the semester (Time to be announced by instructor).

There are NO practicum or quiz make-ups for ANY reason!!!

- Format: Multiple choice, matching, True/False.
- Scantron 882-E (100 question, A-E)
- Time: 1st 1 hour and 15 minutes of class (late arrivals **ONLY** get the remaining time from arrival)
- **NO LEAVING ROOM** during exam! Leaving room during exam **ENDS** your exam.
 ** *Use the restroom BEFORE taking the exam* **
- Cell phones or other disruptions are grounds for forfeiting your grade for a given exam.
- Posted Grades: All grades will be posted on blackboard (see your instructor if you have any difficulty accessing blackboard). You will be able to get your Blackboard ID and password from Academic Commons. It is advisable to keep your work that has been graded and handed back. Should there be any discrepancies in the logging of your grades, you will be asked to show the graded work(s) as proof or your gradewill remain as it is in the system. If you have questions about your grades, you must inform the instructor within 5 days of the grade posting. There will be **NO** change in grades after the 5 days, **INCLUDING THE FINAL GRADE!**
- Make-up Exams: A time will be announced **ONLY** for those who have missed a lecture exam due to extraordinary circumstances as **APPROVED** by **INSTRUCTOR**. Eligibility for being able to take a make-up exam is at the instructor’s discretion, but primarily limited to death in the family or hospitalization proof required.

Lab

Procedures:

Each student is expected to participate in lab. Physically interacting and study of tissues is essential to committing the information on the body's intricate structure to memory. Activities will include demonstrations, dissection. Additional activities may also be included as announced by the instructor. **ALWAYS** leave your work space clean!

Lab: Points given are based on participation in labs (dissection, etc.).

Lab Sign-Off Sheet: Each lab will have an assignment. You will complete the assignment IN LAB and answer the review questions after which the instructor will mark you off as completed for that lab.

NOTE: Bones, models and specimen materials or other property of Victor Valley College ARE NOT to leave the premise under ANY circumstances. Materials are numbered in most cases. Please return them to their proper places and don't hog them. Please share the materials amongst your classmates.

The Pig:

General: The anatomy of the pig is similar to humans. There are, however, some differences of which you should take note. As this is human anatomy, your focus will be on the human.

Care: Maintain your specimen in the best possible condition. The pigs are prepared by a biological company for dissection and are kept in a preservative solution. If you have allergies or are pregnant, you should consult your physician before taking this course.

Dissected parts of pig may be disposed of in the regular waste containers. DO NOT, however, put scalpel blades in the trash. **Blades MUST be disposed of in the sharps container!**

Students will share a pig for dissection. Pigs will be placed back into a plastic bag and labeled and then stored in a laundry basket.

It is against the law in the state of California to wear gloves outside of the laboratory.

If you exit the room during lab, please take off your gloves first! Failure to remove your gloves before leaving the lab, you will lose any and all extra credit opportunity.

CLASS PROJECT: **Potential Assignment for SPRING 2008 Session: Lab Report**
(more information on this later)

Lab Report: You are responsible for completing a written lab report. Each student will be responsible for writing 1 laboratory report using "Scientific and Technical Writing" style. The lab report can be written on *any* lab containing an experimental component by your choice. You will be writing an individual report based on what was performed in a laboratory experiment we performed in class. You will take the data that was collected in class during the experiment, and analyze experimental results using the guidelines below. This is an assignment in "Scientific Writing". I highly recommend the following to assist you: www.ncsu.edu/labwrite/ Hint: Visit this website **BEFORE** you perform the lab experiment you are interested in! Urinary or Respiratory system, and Blood Testing are common choices.

Report Grade: You will receive a score on your report listed as a percent (e.g. 100% means a perfect score). As listed under “Grading Policy”, this score will be worth 10% of your overall grade, so please treat it seriously!

Abstract (30 pts)	A single spaced paragraph containing an intro/purpose sentence, hypothesis, brief statement summarizing the procedure, any numerical data or results, and a conclusion statement.
Introduction (10 pts)	Overview and Introduction of the topic of the report <u>researched</u> from various references, and the purpose of performing the experiment.
Procedure (20 pts)	Detailed text written procedures in paragraph form (not numbered steps) so that another student could follow your directions to perform the same experiment.
Data/Results (10 pts)	Any data, calculations, diagrams, or results that you gathered.
Conclusions (20 pts)	Analysis of your results, and explanations of your results, requires insight and reasoning to summarize the overall purpose of the experiment.
References (10 pts)	Student has a grasp on the experimental purpose and hypothesis. Actual data from the experimental performed in lab were included and referred to in the report. Student had a clear understanding what the experimental outcome was and clearly summarized it in the conclusion. Also mentioned any experimental error or variables. Minimum of 5 references (NO more than 2 from the internet)

Lab Practica

Lab practicals will cover both hands-on materials and other activities covered during lab and do not always coincide exactly with the lectures. Lab practicals focus on primarily on IDENTIFICATION of the studied structures. You will be given over a 1 minute at each station and you will go through the questions twice. **DO NOT TOUCH OR MOVE ANY PINS OR TAGS. IF YOU DO YOU WILL RECEIVE A ZERO ON THE PRACTICAL AS THESE ACTIONS ARE CONSIDERED CHEATING!** You will need a scantron 882-E and a No. 2 pencil. All other items are to be left at front of room during practical. ANY TALKING or LOOKING AROUND will be considered a form of dishonesty and you will receive a ZERO on the practical. BE ON TIME!!! If you come late, you will have ONLY from the time you arrive till the end of the practical (NO EXTRA TIME!).

Policy on Cheating

Cheating will not be tolerated in class. Students will conduct themselves as described in the current VVC Student Handbook with the utmost academic integrity and respect for the campus policies. Penalties for cheating are at the instructor's discretion and may include options as severe as expulsion from the College. It is your responsibility to read and sign the "IMPORTANT CLASS POLICIES" provided you in class.

CONTINUED ENROLLMENT IMPLIES ACCEPTANCE OF POLICIES AND GUIDELINES HEREIN.

Supplementary Materials

Quiz and exam scantrons, colored pencils, a medical dictionary.

Outline: Available from bookstore. This guide contains a list of the terminology from each chapter in your text for which you will be responsible on an exam, thus, it is also a "review sheet". This review sheet makes a good outline for taking notes. Listing/defining the terms listed at the end of each chapter is a good method for review.

Tape/MP3 Recorder: Lecture is VERY fast paced as required by the volume of material to be covered during this condensed course as required by the state. If you wish to record the class, that is fine.

Conduct

General

Clean up after yourself, contribute to the learning atmosphere, and come prepared to succeed. TURN OFF PAGERS & CELL PHONES **BEFORE** ENTERING CLASS! Not only is this ***required***, it is also greatly appreciated by one and all.

DO NOT TALK DURING LECTURE – IT IS A DISTRACTION AND WILL NOT BE TOLERATED. HOWEVER, questions to the instructor are welcome.

NO EATING OR DRINKING IN THE LABORATORY. DO NOT leave drinks on the floor in the hallway outside of the lab or anywhere in the building. IF you leave to answer your phone, **DO NOT** reenter the classroom until the break.

It is YOUR responsibility to be aware of all assignments and instruction given in class.

Victor Valley College policy does not allow for children to come to class.

BIOL 107 Spring 2008: TENTATIVE Lecture and Laboratory Course Schedules

LECTURE					LAB		
Week	Day / Date			Lecture Focus	Text Chapter	Laboratory Focus	Ex. # (Act #)
1	AUG	25	MON	Syllabus, Human Biology, science & society	1	Scientific method, lab guide; Microscope: parts & cells	1,2,3
		27	WED	The chemistry of living things, Structure & Function of cells	2,3		
2	SEP	1	MON	Labor Day - No Class		Labor Day - No Class	
		3	WED	Library Tutorial		Library assignment	
3		8	MON	Structure & Function of cells; From cells to organ system	3,4	Cell Physiology; Integument	4(2,4),5
		10	WED	EXAM 1 (ch 1-4)			
4		15	MON	Sketetal System	5	Skeletal; Muscular	8(2-5),9
		17	WED	Muscular System	6		
5		22	MON	Nervous system	11	Blood; Heart & Vessels	14(1-3), 15(1,3,5)
		24	WED	Sensory mechanics	12		
6		29	MON	Respiratory system (<i>on Exam 3</i>)	10	PRACTICAL 1	
	OCT	1	WED	EXAM 2 (ch 5,6,11,12,13)		PRACTICAL 1	
7		6	MON			Respiratory system	16(3,4)
		8	WED	Heart	8		
8		13	MON	Blood vessels	7	Nervous system	10(2-4) 11(2,3)
		15	WED	Blood	7		
9		20	MON	Blood; Immune System	7,9	Endocrine system	13 (PIG)
		22	WED	Immune system	9		
10		27	MON	EXAM 3 (ch 7-10)		PIG: Digestion; Nutrition	17&18(1,3)
		29	WED	Digestive System	14		
11	NOV	3	MON	Urinary System	15	PIG: Reproductive	19
		5	WED	Urinary System; Reproductive System	15,16		
12		10	MON	Veteran's Day - No Class!	16	Veteran's Day - No Lab!	
		12	WED	Reproductive System	17	No Lab	
13		17	MON	Cell reproduction	18	Protein synthesis; Cancer	Handout; 20
		19	WED	Cancer			
14		24	MON	EXAM 4 (ch 14 - 18)	19	Pig Review	
		26	WED	Genetics & Inheritance	22		
15	DEC	1	MON	Evolution & Origins of life		Open lab	
		3	WED	Ecosystem & Population: Human impacts	23		
16		8	MON	Biodiversity & environmental issues	24		
		10	WED				
17				EXAM 5 (Final Exam: ch 19,22,23,24)		LAB PRACTICAL 2: Mon @ 9:45a Wed @ 10:45a	