Reedley College Spring 2010

Class: Biology 5 – Human Biology 57003 (4 Units)

Lecture	-	Mon:	12:00noon	–	1:50pm	- in LFS 11
	-	Thurs:	12:00noon	–	12:50pm	- in LFS 11
Laboratory	-	Thurs:	1:00pm	–	2:50pm	- in LFS 11

This course is an introductory human biology course that examines science and societal issues. There is special emphasis on the following body systems: Circulatory, Digestive, Respiratory, Urinary, Skeletal, Muscular, Nervous, Sensory, Endocrine, Reproductive and Genetics.

Basic Skills Advisories: Eligibility for English 125, 126, and Mathematics 101

Text:	Human Biology (eleventh edition) by Sylvia S. Mader	McGraw Hill
Lab Manual:	Human Biology (eleventh edition) by Sylvia S. Mader	McGraw Hill

Instructor: Dr. B.J. Marquez

E-mail: bernard.marquez@reedleycollege.edu
Office: Life Science Room 13 **Phone:** 559-638-3641 ext. 3257
Office Hours: Tuesday 11:00am, Wednesday 3:00pm, & Thursday 1:00pm or to arrange

Attendance:

You are required to attend **ALL** class sessions. There are NO excused absences except as defined in the Reedley College Catalog. If you are absent more than FIVE hours during the semester, you MAY be dropped from the class. If you are absent more than TEN hours, you **WILL** be dropped from class. If your ELEVENTH hour of absence occurs after the last day to drop, your final point total will be lowered by 25 points for each absence.

Tardiness: Three tardies equal one class absence.

***** I reserve the right to make changes in this syllabus with notification *****

Final Grade: Determined on a basis of points accrued throughout the course.

A = 90 - 100%	50%	- Five (5) Exams
B = 80 - 89%	15%	- One (1) Final Exam
C = 70 - 79%	28%	- Fifteen (15) Laboratory Assignments
D = 60 - 69%	7%	- Lecture & Laboratory Participation
F = 59% & lower		

NO FOOD OR DRINK ALLOWED IN ANY CLASSROOMS
NO EXTRA CREDIT
No children allowed in class at any time
No disruptive behavior
Tardy assignments count for only one-half credit or no credit.

"If you have special needs as addressed by the Americans with Disabilities (ADA) act including alternate media requests, please notify your course instructor immediately. Reasonable efforts will be made to accommodate your special needs."

	Biology 5 - Human Biology 57003	***Dr. Marquez***	***Spring 2010***
	Lecture & Lab Schedule	*****I reserve the right to make changes in this schedule with notification*****	
	Monday Lecture	Wednesday Lecture	Wednesday Laboratory
	11-Jan-10	13-Jan-10	13-Jan-10
1	Chapter 1 - Exploring Life & Science	Chapter 2 - Chemistry of Life	*Lab 2 -Light Microscopy*
	18-Jan-10	20-Jan-10	20-Jan-10
2	**MLK Day**	Chapter 3 - Cell Structure & Function	*Lab 3 - Chemical Composition of Cells*
	25-Jan-10	27-Jan-10	27-Jan-10
3	Chapter 4 - Organization & Regulation of Body Systems	Chapter 5 - Cardiovacular System: Heart and Blood Vessel	*Lab 4- Cell Structure and Function*
	1-Feb-10	3-Feb-10	3-Feb-10
4	***Exam 1 (Chapters 1-4)***	Chapter 6 - Cardiovascular System: Blood	*Lab 7 - Cardiovascular System*
	8-Feb-10	10-Feb-10	10-Feb-10
5	Chapter 7 - Lymphatic System & Immunity	Chapter 8 - Digestive System and Nutrition	*Lab 8 - Chemical Aspects of Digestion*
	15-Feb-10	17-Feb-10	17-Feb-10
6	**President's Day**	Chapter 9 - Respiratory System	
	22-Feb-10	24-Feb-10	24-Feb-10
7	***Exam 2 (Chapters 5-8)***	Chapter 10 - Urinary System & Excretion	*Lab 11 - Homeostasis*
	1-Mar-10	3-Mar-10	3-Mar-10
8	Chapter 11 - Skeletal system	Chapter 12 - Muscular system	*Lab 12 - Musculoskeletal System*
	8-Mar-10	10-Mar-10	10-Mar-10
9	***Exam 3 (Chapters 9 - 12)***	Chapter 13 - Nervous System **Drop Date**	*Lab 13 - Nervous System and Senses*
	15-Mar-10	17-Mar-10	15-Mar-10
10	Chapter 14 - Senses	Chapter 15 - Endocrine System	*Lab 14 - Development*
	22-Mar-10	24-Mar-10	22-Mar-10
11	Chapter 16 - Reproductive System	Chapter 17 - Development and Aging	*Lab 15- Mitosis and Meiosis*
	29-Mar-10	**31-Mar-10**	**Holiday**
	Spring	**Break**	
	5-Apr-10	7-Apr-10	7-Apr-10
12	Chapter 18 - Patterns of Chromosome Inheritance		***Exam 4 (Chapters 13 - 17)***
	12-Apr-10	14-Apr-10	14-Apr-10
13		Chapter 20 - Patterns of Genetic Inheritance	*Lab 16 - Patterns of Inheritance*
	19-Apr-10	21-Apr-10	21-Apr-10
14	Chapter 21 - DNA Biology and Technology		*Lab 17 - DNA and Biotechnology*
	26-Apr-10	28-Apr-10	28-Apr-10
15	Chapter 19 - Cancer		***Exam 5 (Chapters 18 - 21)***
	3-May-10	5-May-10	5-May-10
16	Chapter 22 - Human Evolution	Chapter 23 - Global Ecology	*Lab 18 - Human Evolution*
	10-May-10	12-May-10	12-May-10
17	Chapter 24 - Human Population, Planetary Resources, & Conservation		*Lab 19 - Effects of Pollution on Ecosystems*
	Final Exam: Monday	**17-May-10**	**At 12:00 - 1:50pm**

COURSE OUTCOMES: Upon completion of this course, students will be able to:

A. understand the process of science and society, microscopy, and the cell
B. identify human body levels of organization and homeostatic mechanisms
C. understand the chemical basis of life
D. evaluate scientific literature and current biological achievements
E. apply the principles of genetics to humans and understand the outcome of normal and abnormal DNA
F. understand the structure and function of the following systems: circulation, digestive, respiratory, urinary, skeletal, muscular, nervous, sensory, endocrine, reproduction, and genetics and evolution

COURSE OBJECTIVES: In the process of completing this course, students will:

A. read, analyze, evaluate, and discuss scientific method, the cell, and human levels of organization
B. learn the periodic table of the elements, the chemistry of the carbon atom, and the chemical structure of humans
C. analyze and interpret data on the homeostatic mechanisms within the human body
D. learn the cell's structure, function, and the cell cycle in relation to the multicellular human body
E. observe and document the structure and function of the human body by examining human body systems including: circulatory, digestive, respiratory, urinary, skeletal, muscular, nervous, sensory, endocrine, and reproduction
F. review classical and molecular genetics and learn the processes of replication, transcription, and translation
G. perform experiments, observe, and record data
H. study evolution
I. discuss social issues between humans and science

Canceled Class Notification: If circumstances do not allow me to hold class, the Deans' office will place a notice on the class room door.

Cheating on exams, will not be tolerated, anyone caught cheating will receive 0% on that exam.