

Reedley College Spring 2009

Class: Biology 5 – Human Biology 55720 (4 Units)
 Lecture - Tues: 9:00am – 10:50am - in LFS 11
 - Thurs: 9:00am – 9:50am - in LFS 11
 Laboratory - Thurs: 10:00am – 11:50am - 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 (tenth edition) by Sylvia S. Mader McGraw Hill
Lab Manual: Human Biology (tenth 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% 20% - One (1) Final Exam
 C = 70 - 79% 25% - Fifteen (15) Laboratory Assignments
 D = 60 - 69% 5% - 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 55720
Lecture & Lab Schedule

Dr. Marquez

Spring 2009

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	Tuesday Lecture	Thursday Lecture	Thursday Laboratory
1	13-Jan-09 Chapter 1 - Exploring Life & Science	15-Jan-09 Chapter 2 - Chemistry of Life	15-Jan-09 <i>Lab 3 - Chemical Composition of Cells</i>
2	20-Jan-09 Chapter 3 - Cell Structure & Function	22-Jan-09	22-Jan-09 <i>Lab 4- Cell Structure and Function</i>
3	27-Jan-09 Chapter 4 - Organization & Regulation of Body Systems	29-Jan-09	29-Jan-09 Exam 1 (Chapters 1-4)
4	3-Feb-09 Chapter 5 - Cardiovascular System: Heart and Blood Vessel	5-Feb-09 Chapter 6 - Cardiovascular System: Blood	5-Feb-09 <i>Lab 5 - Human Body Tissues</i>
5	10-Feb-09 Chapter 7 - Lymphatic System & Immunity	12-Feb-09 Chapter 8 - Digestive System and Nutrition	12-Feb-09 <i>Lab 7 - Cardiovascular System</i> <i>Lab 8 - Features of the CV System</i>
6	17-Feb-09	19-Feb-09 Chapter 9 - Respiratory System	19-Feb-09 <i>Lab 9 - Chemical Aspects of Digestion</i>
7	24-Feb-09 Exam 2 (Chapters 5-8)	26-Feb-09 Chapter 10 - Urinary System & Excretion	26-Feb-09 <i>Lab 12 - Homeostasis</i>
8	3-Mar-09 Chapter 11 - Skeletal system	5-Mar-09 Chapter 12 - Muscular system	5-Mar-09 <i>Lab 13 - Musculoskeletal System</i>
9	10-Mar-09	12-Mar-09 Chapter 13 - Nervous System Drop Date	12-Mar-09 Exam 3 (Chapters 9 - 12)
10	17-Mar-09 Chapter 14 - Senses	19-Mar-09 Chapter 15 - Endocrine System	17-Mar-09 <i>Lab 14 - Nervous System and Senses</i>
11	24-Mar-09 Chapter 16 - Reproductive System	26-Mar-09 Chapter 17 - Development and Aging	24-Mar-09 <i>Lab 17- Mitosis and Meiosis</i>
12	31-Mar-09 Exam 4 (Chapters 13 - 17)	2-Apr-09 Chapter 18 - Patterns of Chromosome Inheritance	2-Apr-09 <i>Lab 18 - Patterns of Inheritance</i>
	7-Apr-09 Spring	9-Apr-09 Break	Holiday
13	14-Apr-09	16-Apr-09 Chapter 20 - Patterns of Genetic Inheritance	16-Apr-09 <i>Lab 19 - DNA and Biotechnology</i>
14	21-Apr-09 Chapter 21 - DNA Biology and Technology	23-Apr-09	23-Apr-09 <i>Lab 20 - Genetic Counseling</i>
15	28-Apr-09 Chapter 19 - Cancer	30-Apr-09	30-Apr-09 Exam 5 (Chapters 18 - 21)
16	5-May-09 Chapter 22 - Human Evolution	7-May-09 Chapter 23 - Global Ecology	7-May-09 <i>Lab 21 - Human Evolution</i>
17	12-May-09 Chapter 24 - Human Population, Planetary Resources, & Conservation	14-May-09	14-May-09 <i>Lab 22 - Effects of Pollution on Ecosystems</i>

Final Exam: Tuesday

19-May-09

At 9:00 am

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.