

Biology 5 – Human Biology Syllabus

Fall 2017

Section: 95658

Class Meetings: Lecture – Tuesday 12:00 – 2:50 PM, Life Science 17

Lab – Thursday 12:00 – 2:50 PM, Life Science 17

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Office Hours: Tuesday 3:00 – 5:00PM

Virtual Office Hours*: Friday 9:00 – 10:00AM

*details on how to access virtual office hours posted on Canvas

Course Description

This course is an introductory human biology course that examines science and societal issues. This course emphasizes the structure of the human body and the functional interrelationships of the body's systems: integument, circulatory, digestive, respiratory, urinary, skeletal, muscular, nervous, endocrine, reproductive, and genetics.

I. **Course Objectives:** *In the process of completing this course, students will*

- Read, analyze, evaluate, and discuss scientific method, the cell, and human levels of organization
- Learn the periodic table of the elements, the chemistry of the carbon atom, and the chemical structure of humans
- Analyze and interpret data on the homeostatic mechanisms within the human body
- Learn the cell's structure, function, and the cell cycle in relation to the multicellular human body
- 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
- Review classical and molecular genetics and learn the processes of replication, transcription, and translation
- Perform experiments, observe, and record data
- Study evolution
- Discuss social issues between humans and science
- Develop a vocabulary to effectively communicate information related to anatomy and physiology.
- Summarize the levels of structural organization important to the human anatomy

II. **Required Course Materials:**

- Textbook/Lab Manual Bundle: *Human Biology and Human Biology Lab Manual w/Connect*, 14th Ed. Mader and Windelspecht; McGraw-Hill
ISBN: 978-1259688218
- Book: *The Immortal Life of Henrietta Lacks*, Rebecca Skloot
ISBN: 978-1-4000-5218-9
- Biology sketch paper (10 sheets)
- Scantrons: 882-E (5x - exams)

III. Technology/Canvas:

- Check your Reedley College email accounts and Canvas regularly for announcements.
- All lecture and lab PowerPoints, handouts, notes, schedules, grades, ect. will be posted on Canvas.

V. Class Policies

- **Attendance Policy:**
 - Students are expected to attend all class sessions. Sign-in sheets will be used and each student must sign in for himself/herself ONLY.
 - Students will be dropped from this course if they do not attend the first lecture and/or first lab without prior notification to the instructor.
 - Students will be dropped from this course if they have excessive absences of 8 hours or more of lab and/or lecture by the end of the third week of instruction (September 1).
 - *If you miss 15 hours or more of this class throughout the semester, it will result in the lowering of your final course letter grade by one letter grade.*
- **Make-up Policy:**
 - Lecture Exams may only be made up due to extreme circumstances, at the discretion of the instructor, if arranged with the instructor *before the scheduled exam period (at least 3 hrs prior).*
 - ***Lab Exams can only be taken on the day they are scheduled, no make-ups, NO EXCEPTIONS***
 - ***Quizzes may not be made up.***
 - ***No late work (assignments, lab reports, ect.) will be accepted.***
- No cell phones should go off during this class. Please be respectful to your instructor and classmates by silencing your phone, and taking phone calls outside if necessary. If they ring or are used during a test or quiz, the student will receive a 0 for that exam or quiz. You cannot make up these assignments.
- **COLLEGE POLICY ON CHEATING AND PLAGIARISM**

“Students at the Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share responsibility for seeing that their education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.” Reedley College Catalog pg. 45

 - Please see Disciplinary Procedures in the Student Conduct Standards and Grievance Procedures Handbook available in the Vice-President of Student Services office, or at the link listed below.
- For a comprehensive list of Student Conduct Standards, see: <http://reedleycollege.edu/index.aspx?page=233>
- If you have a verified need for an academic accommodation or materials in alternate media (e.g. Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact the instructor as soon as possible.

VI. Grading

Final letter grade scale: A = 90% +, B = 89 - 80%, C = 79 - 70%, D = 69 - 60%, F = 59% or less.

TASK	Points	% of Grade	Breakdown	Notes
Lecture Exams	200	20%	4 Exams @ 50 points each	
Lab Exams	150	15%	2 Exams @ 75 points each	
Final Exam	150	15%	1 cumulative final	
Lab Reports	150	15%	15 @ 10 points each	
Lab Drawings	50	5%	10 @ 5 points each	
In-class Quizzes	100	10%	10 @ 10 points each	
Connect Readings	80*	8%	4 units @ 25 points/unit = 100 pts (# of Ch. will vary by unit)	*a total of 100 points will be offered, but score will be out of 80. 20 points extra credit available
Case Study Presentation	50	5%	1 group presentation	
Writing Assignments	70	7%	1 paper @ 50 pts 4 discussion board posts @ 5 pts each	
Totals	1000	100%		

Grades will be posted on Canvas and will be updated regularly throughout the semester.

VII. Exams and Major Assignments

- **Lecture Exams.** Exams may only be made up due to extreme circumstances, at the discretion of the instructor, if arranged with the instructor before the scheduled exam period (at least 3 hrs prior). There will be 4 midterms and a comprehensive final exam (see the Tentative Schedule for exam dates). Each exam will include new material covered in the corresponding unit. Exams will consist of multiple-choice, matching, fill in the blank, and short-answer/essay questions. Forming study groups is highly recommended. All exams will be given in class. **Final Exam** is cumulative.
- **Lab Exams.** Lab exams must be taken on the day that they are scheduled. There are no make-ups, no exceptions. There will be 2 lab exams (see the Tentative Schedule for exam dates). These exams will be in the form of a practical, where stations are set up with models, microscopes, and/or images for identification or an explanation. Students will be timed (45 seconds per question) and will rotate around the room until all students have been through all stations. Questions will be a variety of fill-in, multiple choice, and matching questions.
- **Lab Reports.** Each lab session will have an associated lab report. Lab reports are due at the end of their scheduled class session. No late lab reports will be accepted. *You cannot turn in a lab report for a lab that you were not in attendance of.* Lab reports must be submitted on the lab report pages from the lab manual. No photocopied or regular paper copies will be accepted.
- **Lab Drawings.** For some lab sessions, students will be required to submit a lab drawing. Exact details of the drawing will be given in class and posted on Canvas. These lab drawings should be done on Biology sketch paper (available for purchase at the Reedley College Bookstore). Lab drawings are due at the time of the lab exam for each unit. No late lab drawings will be accepted.
- **In-class Quizzes.** Quizzes will be given at the *beginning* of the scheduled lecture session (See Tentative Schedule for Dates) and you will have 15 minutes to complete it. If you are late, your quiz will still be collected 15 minutes from the beginning of the class session. Quizzes will consist of multiple-choice, true-false, and short answer questions and will contain information covered in the unit up to that point. *Quizzes cannot be made up if missed.*

- **Connect Readings.** Every lecture will have associated LearnSmart Reading through your McGraw-Hill Connect account. These assignments (and the eBook) can be accessed through Canvas. LearnSmart Reading assignments will be due at the end of each unit. See Canvas for exact due dates. It is HIGHLY RECOMMENDED that you complete the assigned reading BEFORE the associated lecture.
 - **Extra credit.** Extra credit can be earned by completing all LearnSmart Reading assignments. Throughout the semester, there will be a total of 100 points offered, but will only be graded out of 80 points. This allows up to 20 extra credit points (or 2%). *There will be no other extra credit offered in this course.*
- **Case Study Presentation.** Each student will be responsible for working with a group of students (3-4) in this course to complete an in class case study presentation. Each group of students will be assigned a ‘patient’ with an example disease. At the conclusion of the semester, each group will give a 10-15 presentation to the class describing their patient’s disease, and the appropriate courses of treatment. Detailed instructions (including topics, formatting requirements, rubrics, due dates, ect.) for the assignment are available on Canvas. *If you do not fulfill the requirements of this presentation assignment in its entirety, you cannot pass Biol 5.*
- **Writing Assignments.** There will be two types of writing assignments in the course:
 1. **Formal written paper.** You are required to complete one paper in this course to fulfill the writing requirement of this GE course; the word count of this assignment must be over 1000 words to pass this class. Detailed instructions (including topics, formatting requirements, rubrics, due dates, ect.) for the assignment are available on Canvas. You will submit a draft of your report for peer feedback. The instructor will grade the final version of your assignment. Note: All drafts and final reports must be submitted to TurnItIn (on Canvas) for the peer feedback and grading process. *If you do not fulfill the requirements of this writing assignment in its entirety, you cannot pass Biol 5.*
 - *Plagiarism Detection:* The campus subscribes to TurnItIn plagiarism prevention service through Canvas, and you will need to submit written assignments to TurnItIn. Your work will be used for plagiarism detection and for no other purpose. TurnItIn Originality Reports will be available for your viewing.
 2. **Discussion Board Posts.** This course will participate in the college wide “One Book, One College” initiative. Students will read the book *The Immortal Life of Henrietta Lacks*. Each unit there will be a discussion board prompt through Canvas for students to respond to related to the assigned reading. Detailed instructions (including prompts, formatting requirements, rubrics, due dates, ect.) for these posts are available on Canvas.

VIII. Participation Standards

- **Study Expectations. Consider using the following statement:**
It is usually expected that students will spend approximately 2 hours of study time outside of class for every one hour in class. Since this is a 4-unit class (6 hrs/week), you should expect to study an average of **at least** 12 hours outside of class each week. Some students may need more outside study time and some less.

IX. Subject to Change Statement

- This syllabus and tentative schedule are subject to change with notification. If you are absent from class, it is your responsibility to check on announcements made while you were absent.
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TENTATIVE SCHEDULE

DATES	Lecture	Lab	LearnSmart Reading* (Ch)	Other
Week 1	Course Intro Science of Biology	Safety Evaluating Science Articles 3: Microscopy	1	
Week 2	The Chemistry of Life	4: Chemical Comp of Cells	2	Quiz #1
Week 3	The Cell	5: Cell Structure and Function	3	Quiz #2
Week 4	Human Body Organization and Homeostasis	6: Body Tissues	4	Quiz #3
Week 5	Lecture Exam (Ch 1 – 4) The Cardiovascular System	8: Cardiovascular System	5, 6	
Week 6	The Immune System The Respiratory System	Spread of Infectious Disease 11: Homeostasis	7, 8, 10	Quiz #4
Week 7	The Urinary System The Digestive System	Lab Exam	11, 9	Quiz #5
Week 8	Lecture Exam (Ch 5 – 11) The Skeletal System The Muscular System	12: Musculoskeletal System	12, 13	
Week 9	The Nervous System Sensory/Special Senses	13: Nervous System and Senses	14, 15	Quiz #6
Week 10	The Reproductive System The Endocrine System	14: Reproduction and Devo	17, 16	Quiz #7
Week 11	Lecture Exam (Ch 12 – 17)	7: Organization of the body; Virtual Pig Dissection		
Week 12	Mitosis and Meiosis	15: Mitosis and Meiosis	19, 20	Quiz #8
Week 13	Genetics	16: Genetics	21	Quiz #9
Week 14	DNA Structure and Function Biotechnology	17: DNA and Biotechnology	22	Quiz #10
Week 15	Evolution and Biodiversity	18: Human Evolution	23, 24, 25	
Week 16	Lecture Exam (Ch 19 – 25) Lab Exam Review	Lab Exam		
Week 17	Final Exam Review	Case Study Presentations		
Week 18	Final Exam - Cumulative			

* **LearnSmart Readings:** Check Canvas and your Connect accounts for the exact sections you are required to read and complete

Other Important Dates:

- Final Drop date to avoid “W”: September 1
- Final Drop Date (with “W”): October 13th
- **Field Trip to California Science Center: October 27th**