

Biology 5 (BIOL5) Human Biology

Semester: Fall 2016 Reedley Community College

Instructor: Andrew Strankman	Office: LFS 5
Email: andrew.strankman@reedleycollege.edu	Office Hours:
Phone: 559-638-0300 ext. 3499	Monday: 9:00-10AM
Class No. 51196, 51197, 51198	Tuesday: 4:30-5:30PM
Date: 08/15/16 - 12/16/16	Friday: 12:00-1:00PM (Digital)
Lecture: Monday/Wednesday	7:30AM - 8:45AM
Lab: Wednesday	9:00AM - 10:50AM #51196
	11:00AM - 12:50PM #51197
	1:20PM - 3:10PM #51198

Prerequisites: None, eligibility for ENGL 125, 126, or 153; or ESL 67 and 68 recommended. This is an introductory course using the principles approach to general biology which satisfies the general science requirements focused on students entering health or science careers. It is a prerequisite for all advanced science courses (Human Anatomy, 20; Human Physiology, 22; Human Anatomy and Physiology, 24; Microbiology, 31).

Objectives: To expose the student to the field of Biology and the general principles of scientific study as they relate to humans. Students completing the course will have a basic understanding of the cellular and chemical basis of life, genetics, evolution and ecology. Human structure and function will be the major focus of the class. Students will also be able to analyze and critically evaluate scientific literature, will have an introductory knowledge of laboratory procedures, and will have an awareness and appreciation for some of the career choices the field of biology has to offer.

REQUIRED MATERIALS

Mader, Sylvia S. and Michael Windelspecht, *Human Biology*, 14th edition. 2015.

Mader, Sylvia S., *Human Biology Lab Manual*, 14th edition, 2015.

Make sure you get the bundle from the bookstore which contains CONNECT access

Scantron #882-E for lecture tests (x6)

Package of index note cards

Optional (but recommended) materials:

Rubber gloves, protective clothing (for dissection labs)

Biology drawing paper; one 2H and one 4h pencil (or similar for drawings)

Metric ruler (15 cm, clear plastic)

NO FOOD, BEVERAGES, CELLULAR PHONES, PAGERS, OR PROFANITY AT ANY TIME!

If you or your electronics become a disturbance to the class, points will be deducted from your scores on assignments and you may be asked to leave.

ATTENDANCE AND DROP/ADD POLICY

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.

I will drop students (both enrolled and waitlisted) based on the following policy:

1. Student does not attend the first lecture.
2. Student does not attend the first lab.
3. Student misses a cumulative 3 hours (lecture or lab) in the first week.
4. Student misses a cumulative 4 hours (lecture or lab) in the first three weeks.
5. Student misses 6 hours (lecture or lab) up to drop date without providing a valid excuse (as determined by me).

LATE ASSIGNMENTS, CHEATING, AND MAKE-UP POLICY

Late assignments will not be accepted. **After one week any missed grade may not be made up** unless prior written arrangements have been made. This is to ensure fairness both to the other students and to me. Any student caught cheating will be subject to the Reedley College disciplinary procedures (see the catalog). Be aware that the procedures require a written notification to the dean that will become a part of your permanent record.

Lab practical exams can NOT be made up. Period. Lecture exams can not be made up, unless extreme circumstances, documented in writing, are provided. The instructor holds final decision on what constitutes an acceptable circumstance.

VI. TESTS AND EVALUATION

<u>Description</u>	<u>Possible Points</u>
4 Lecture Exams (75 points each)	300
1 Case Study Presentation	100
10 Quizzes (10 points each)	100
20 Connect Readings (5 points each)	100
10 Drawings (5 points each)	50
Lab Review Sheets/Activities	120
2 Lab Practical Exams (50 points each)	100
1 Lecture Final	100
Participation	30
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Total points	1,000
Extra Credit (see VII below)	Maximum of: 25

To calculate your grade, total all points earned and divide that number by the total points available (1,060).

Course grades are non-negotiable; Instructor reserves the right to curve individual tests and/or assignments. FINAL GRADES WILL NOT BE CURVED... ALSO, I DO NOT round up your grades to the next letter grade.

The final course grade is based on:

<u>Percent Range</u>	<u>Grade</u>
90-100	A
80-89.99	B
70-79.99	C
60-69.99	D
Less than 60	F

Lecture exams may be any combination of multiple-choice, true-false, matching, short-answer and essay questions based on the main objectives of each chapter. Please note that I require correct spelling and grammar. If I can't read it, I can't grade it! Write neatly!

Lab exams will be practical based on the work done in the laboratory. They may include multiple choice, true-false, matching, and short answer questions.

Lecture final exam will be comprehensive. Since this course is a prerequisite for all other Biology classes, it is important that you retain as much knowledge as possible from this course to ease your way in the following semesters.

Quizzes will occur on dates specified on the course schedule. Quizzes are given at the very start of the class period and last for 20 minutes, if you are late your quiz will still be collected 20 minutes from when the class period began. Material may include and combination of multiple-choice, true-false, matching, and short answer questions.

Lab reviews will be collected at the end of each laboratory period where a laboratory exercise was conducted. These must be complete before you leave the lab period. **Lab drawings** are due 1 week after being assigned.

Case Study will be assigned in the 5th week of class. At this time, the class will be broken up into groups of between 3-4 students. 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. Specific directions will be handed out in class.

Extra Credit I strongly recommend doing extra credit if you feel you have a borderline grade. You earn up to a maximum of 25 points by doing one or more of the following items:

- A. Participating in the lecture summaries.
- B. Outstanding case study presentation.
- C. Attendance quiz

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

CANVAS

All lecture and lab handouts, lecture notes, course schedules, and announcements are available at <https://sccd.instructure.com/login/ldap>. Your user name and password will be discussed in class.

Professional Behavior is expected at ALL TIMES

Please respect other student, the laboratory materials, and me. No food, cellular phones, pagers, or profanity at any time! I am aware that emergencies arise, but place your electronics on silent or “manner” mode. Disruptive behavior that interferes with the teaching and learning processes will be cause for appropriate penalties as described under “University Policies” below.

Food and/or liquids in the laboratory may result in deduction of points.

You will be given a Safety Rules sheet to sign in the lab, which delineates further safety procedures that you **MUST** follow. **OTHER COURSES USE THE MODELS AND THE LAB. PLEASE BE RESPONSIBLE.** Do not use pencils to point out structures on the models. Please remember to clean up the lab after every exercise, as areas left dirty or messy at the end of the period will result in those student groups being **docked 5 points** for every offense.

No food or beverages allowed. Cell phone use will not be tolerated in this class; turn off your cell phones prior to class. Students are allowed to do audio recordings of lectures but not video. Web or internet posting of recorded lecture materials are not allowed. Laptops may be used in this class; laptop users should sit in the back row to avoid distracting others.

Children In Class: In order to promote a positive learning environment, please make arrangements for your child’s care while class is in session. Do not bring children to class.

Cell Phones: Cell phones that are used or go off in class will be confiscated until the end of the class hour. No iPods are allowed in class.

No food, open beverages are allowed in the class at anytime. No profanities are allowed in class.

Dress code: In order to participate in lab activities, wearing shoes with closed toes is required.

Drops: You have until the end of the 9th week to drop the class. If you elect to do so, drop yourself. Do not assume you have automatically been dropped. After the 9th week you must be assigned a grade by state law, whether you attend class or not.

Tutoring: Tutors are available in the tutorial center. If you have not had a biology class since high school, working with a tutor will get you up to speed. The tutors are former students who know how to study for the class. “With this statement on my course syllabus, I am referring each of my enrolled students in need of academic support to tutorial services. Referral reason: Mastering the content, study skills, and basic skills of this course is aided by the use of trained peer tutors”.

College Policies

The university has several policies that you will be expected to adhere to in my course. The **Policy on Students with Disabilities, the University Honor Code, the Policy on Cheating and Plagiarism, a**

statement on copyright, and the **university computer requirement**, portions of which are below, can all be found in the University Catalog (Policies and Regulations) and Class Schedule.

Cheating and Plagiarism: I DO NOT TOLERATE CHEATING. PERIOD. Most of you are entering into the health care field and could harm or seriously injure other human beings if you do not know the basic information in this course. The University policy reads, "Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit; such acts also include assisting another student to do so. Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term 'cheating' not be limited to examination situations only, but that it include any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means.

Any student caught cheating or plagiarizing will be subject to the Reedley College disciplinary procedures (review the Reedley College catalog section on academic dishonesty). Electronics of any kind are not permitted during exams and will result in an automatic zero for that exam.

Students with diagnosed disabilities should contact the Disabled Students Programs and Services' (DSP&S). Please give me a copy of the letter you receive from DSP&S detailing class accommodations you may need. If you require accommodation for test-taking please make sure I have the letter no less than three days before the test. If you have a need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Final Lecture Exam: Friday, December 16, 7:00 – 8:50 a.m. (Dec 12 – 16 Fall final exams week.)

Electronic Textbook: To connect to the electronic textbook you need the following Connect Web Address:

Section 51196: <https://connect.mheducation.com/class/junruh-fall2015-56067>

Section 51197: <https://connect.mheducation.com/class/junruh-fall2015-56068>

Section 51198: <https://connect.mheducation.com/class/junruh-fall2015-56069>

Registration and Sign In

1. Go to the Connect Web Address (above).
2. Click on "Register Now."
3. Enter your email address (this will become your Connect username).

TIP: As a best practice, you want to register with your Reedley College email.

4. Enter the Connect Access Code you received with your purchased textbook or choose "Buy Online" to purchase online access (you will need a credit card and you can get a free 2-week trial).
5. Follow the on-screen directions.

TIP: Please choose your Security Question and Answer carefully. The program asks you for this information if you forget your password. Write it here

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6. When registration is complete, click on "Go to Connect Now."
 7. You are now ready to use Connect and the Smartbook.

*** I will also put a link to Smartbook for LearnSmart (Connect, Online Quizzes) on Blackboard.

Connect to Smartbook

Electronic Textbook: To connect to the electronic textbook you need to download the file in your Canvas course documents

Registration and Sign In

1. Go to the Connect Web Address (above).
2. Click on “Register Now.”
3. Enter your email address (this will become your Connect username).

TIP: As a best practice, you want to register with your Reedley College email.

4. Enter the Connect Access Code you received with your purchased textbook or choose “Buy Online” to purchase online access (you will need a credit card and you can get a free 2-week trial).
5. Follow the on-screen directions.

TIP: Please choose your Security Question and Answer carefully. The program asks you for this information if you forget your password. Write it here

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6. When registration is complete, click on “Go to Connect Now.”
 7. You are now ready to use Connect and the Smartbook.

*** I will also put a link to Smartbook for LearnSmart (Connect, Online Quizzes) on Blackboard.

VII. TENTATIVE SCHEDULE

Please bring your textbook to lecture and your textbook and lab manual to every lab. This is very important!

LR means lab review sheets (Required)

Week	Dates	Lecture (Book Chapter)	Lab (Manual Chapter)
1	Monday	Introduction, and Exploring Life and Science (1)	
1	Wednesday	Exploring Life and Science (1)	Laboratory Safety and Lab 3 : Light Microscopy <u>LR 1 pg 33</u> <u>Drawing 1: Cheek/Cell Structure</u>
2	Monday	Chemistry of Life (2)	
2	Wednesday	Cell Structure and Function (3) Quiz 1	Lab 4: Chemical Composition of Cells <u>LR 2 pg 48</u>
3	Monday	Organization and Regulation of Body System Organ Systems (4)	
3	Wednesday	Cardiovascular : Heart and Blood Vessel (5) Quiz 2	Lab 5: Cell Structure and Function <u>LR 3 pg 60</u> <u>Drawing 2: Epithelial/Connective Tissue</u>
4	Monday	LABOR DAY NO CLASS	
4	Wednesday	Lecture Exam 1 (1-4)	Lab 6 : Body Tissues <u>LR 4</u>
5	Monday	Cardiovascular System: Blood (6)	
5	Wednesday	Lymphatic System and Immunity (7)	Lab 8: Cardiovascular System <u>LR 4 pg 104</u> <u>Drawing 3: Heart Structure (Internal and External)</u>
6	Monday	Biology of Infectious Disease (8) Quiz 3	
6	Wednesday	Digestive System (9)	Lab 11: Homeostasis <u>LR 6 pg 148</u> <u>Drawing 4: Nephron and Tubules</u>
7	Monday	Respiratory System (10) Quiz 4	
7	Wednesday	Urinary System (11)	Lab Exam 1
8	Monday	Lecture Exam 2 (5-10)	
8	Wednesday	Skeletal System (12) Quiz 5	Lab 12: Musculoskeletal System <u>LR 8 pg 165-166</u> <u>Drawing 5: Muscle fiber/tissue</u>
9	Monday	Muscular System (13)	
9	Wednesday	Muscular System (13) Nervous System (14)	Lab 13: Nervous System and Senses <u>LR 9 pg 181</u> <u>Drawing 6: Eye/Ear</u>
10	Monday	Nervous System (14) Quiz 6	
10	Wednesday	Senses (15)	Lab 14: Reproduction and Development <u>LR 10 pg 198</u>
11	Monday	Endocrine System (16) Quiz 7	
11	Wednesday	Reproductive System (17)	Lab 7: Organization of the Body Virtual Pig Dissection <u>LR 7 pg</u>
12	Monday	Lecture Exam 3 (11-16)	

12	Wednesday	Development and Aging (18) Quiz 8	Lab 15: Mitosis and Meiosis <u>LR 11 pg 215</u> <u>Drawing 7: Mitosis/Meiosis</u>
13	Monday	Chromosome Inheritance (19)	
13	Wednesday	Cancer (20) Quiz 9	Lab 16: Patterns of Genetic Inheritance <u>LR 12 pg 230</u>
14	Monday	Genetic Inheritance (21)	
14	Wednesday	DNA Biology and Technology (22)	Lab 17: DNA and Biotechnology <u>LR 13 pg 245-246</u> <u>Drawing 8: DNA/RNA Molecule</u>
15	Monday	Lecture Exam 4 (17-21)	
15	Wednesday	Human Evolution (23) Quiz 10	Lab 18: Human Evolution <u>LR 14 pg 264</u>
16	Monday	Global Ecology (24)	
16	Wednesday	Human Populations (25)	Lab Exam 2
17	Monday	Exam Review	
17	Wednesday	Exam Review	Case Study Presentations
18	Friday	Final Exam (Cumulative)	

Important Dates

- September 2 Last day to add/drop a class (no “W” on transcript)
- September 16 Last day to declare pass/no pass (P/NP) grade option
- October 14 Last day to be dropped with a “W”