

***\*\*\*I reserve the right to make changes in this syllabus without notification\*\*\****

Welcome to Biol-5 Human Biology! I am very excited and look forward to working with each of you this semester. My goal by the end of the semester is to help you receive a good grade and appreciate the human body as well as how it works. I know you have lots of questions, so hopefully this syllabus can answer all of it. If not, please do not hesitate to contact me.

**Lecture Instructor: Robert J. Yang**

**Email:** [robert.yang@cloviscollege.edu](mailto:robert.yang@cloviscollege.edu)

**M.S. in Physiology and Biophysics**

**B.S. in Biological Sciences; emphasis in Neurobiology, Physiology, and Behavior**

**Lab Instructor: Monday's Lab(54218): Danielle Trathen**

**Email:** [danielle.trathen@reedleycollege.edu](mailto:danielle.trathen@reedleycollege.edu)

**Tuesday's Lab(55190): Robert J. Yang**

### **I. COURSE DESCRIPTION: CLASS MEETS:**

#### **Section 54218:**

Lecture: Wednesday 3:00 P.M. to 5:50 P.M. in Life Science Room 17

Lab: Monday 3:00 P.M. to 5:50 P.M. in Life Science Room 17

#### **Section 55190:**

Lecture: Thursday 6:00 P.M. to 8:50 P.M. in Forestry, Engineering & Math Room 3

Lab: Tuesday 6:00 P.M. to 8:50 P.M. in Life Science Room 17

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.

#### **A. Important Dates:**

Mon, Aug 13	Start of Fall Semester
Fri, Aug 24	Last day to drop full-term class to get refund
Fri, Aug 31	Last day to register for a full-length class
Fri, Aug 31	Last day to drop a full-term class and avoid a "W" on your transcript
Mon, Sept 3	Labor Day - Campus Closed
Fri, Sept 14	Last day to change class to/from Pass/No-Pass grading basis
Fri, Oct 12	Last day to drop a full-term class

Mon, Nov 12	Veterans Day - No class held, but campus is open
Thurs & Fri Nov 22 & 23	Thanksgiving Holiday - Campus Closed
Dec 10-14	Final Exams Week
Fri, Dec 14	Fall Semester Ends

**B.** Biology 5 is a 4 unit class with 3 hours of lecture and 3 hours of laboratory each week.

**C.** Prerequisites: None (**This does not mean the course will be easy!**)

**D.** Learning Methods: Lecture/discussion; Laboratory exercises and workbooks; and Audio-Visual Methods

**E.** Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 103 recommended.

**F.** 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. (A, CSU-GE, UC, I)

**Please note:** As you enroll in this course, it is **YOUR** responsibility to determine whether or not you have the skills to succeed. Although this course does not have any pre-requisites, you must carefully assess your own skill level and devote time to studying. Please be proactive and ask for assistance early!

## II. COURSE OBJECTIVES AND OUTCOMES:

**Course Objectives:** In the process of completing this course, you 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
- J.** Develop a vocabulary to effectively communicate information related to anatomy and physiology.
- K.** Summarize the levels of structural organization important to the human anatomy

**Course Outcomes:** Upon completion of this course, you will be able to:

- A. Demonstrate knowledge regarding the process of science and society, microscopy, and the cell
- B. Identify human body levels of organization and homeostatic mechanisms
- C. Demonstrate knowledge of 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. Describe the basic cellular, molecular and gross anatomy of tissues, organs and organ systems and explain the basic function of those tissues and organs that relate to the integument, circulation, digestive, respiratory, urinary, skeletal, muscular, nervous, endocrine, reproduction, genetics, and evolution
- G. Identify and recall fundamental structures from anatomical models and slides using correct nomenclature and language

### III. REQUIRED AND OPTIONAL MATERIALS:

**Required:** Mader, Sylvia S. and Michael Windelspecht, *Human Biology*, 15<sup>th</sup> edition. 2017. (You don't need a hard copy, just the digital book will do, as long as you have connect access)

**Required:** Mader, Sylvia S., *Human Biology Lab Manual*, 15<sup>th</sup> edition, 2017. **\*\*Make sure you get the bundle from the bookstore which contains CONNECT access\*\***

**Required:** Scantron form 882-E

Optional: Rubber gloves, protective clothing (for dissection labs)

### **NO FOOD, BEVERAGES, CELLULAR PHONES, 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.

### IV. CLASS PARTICIPATION & ATTENDANCE AT ALL LECTURES AND LABS ARE MANDATORY:

I reserve the right to drop students (**both enrolled and waitlisted**) based on the following policy:

1. Student does not attend the first lecture without providing a valid excuse (determined by instructor).
2. Student does not attend the first lab without providing a valid excuse (determined by instructor).

Participation in class, especially laboratory activities, is critical for maximizing learning and successful completion of the course. Class starts on time. You are expected to be on time for each laboratory and lecture session. If you are late, check in with the instructor after class to ensure your attendance is counted. Regular roll call will be taken and excessive absences may result in being dropped from the course as per the college catalog.

The class may have a waiting list; therefore, anyone with **an unexcused absence from either a lecture or lab will be dropped from the roster** and replaced by the next person on the waiting list. This process will continue until either the last day to register has passed or until no students remain on the wait list. **Wait-listed students will be dropped from the wait-list with their first absence.** Attendance by wait-listed students will not be permitted after the last day to register. Students must be present to receive an add slip.

Students must be enrolled or on the wait-list to attend class or lab. Wait-listed students must complete and submit lab homework as specified by the course syllabus and course schedule to receive full credit for the labs. Wait-listed students must attend the lab each week to remain on the wait list. **Students who are not wait-listed and want to enroll in the course after the second week of instruction will not be able to register even if there are spaces still available. They will already be behind on the labs. No Exceptions!!!**

The instructor may record roll with a verbal roll-call (especially during the course add period) or provide a sign-in sheet. The roll-call or sign-in sheet will be considered final on the date being recorded, corrections will not be made thereafter (transcription errors from the sign-in sheet to the spreadsheet will be corrected). It is your sole responsibility to ensure the sign-in sheet is completed at the proper time. If you are absent or late for any reason, it is your responsibility to find out what was missed and to ensure completion of any activities. Being **absent** is **NOT** a valid excuse for not submitting lab homework or any other assignments on-time as per the course schedule. If you are absent, you should know what we have covered by reviewing the course schedule. **If you tell me you missed lecture and then ask what you missed, "I will reply that you missed the lecture." If you tell me you missed the lab and then ask what you missed, "I will reply that you missed the lab and that it is your responsibility to get any data from your lab partners."** If you miss a lab or lecture, I suggest you make arrangements with your lab partners to get data, record the lecture, etc. as necessary.

**If you are unable to attend class, you must contact the instructor as soon as possible.**

**ABSOLUTELY NO VISITORS ARE PERMITTED AT ANY TIME DURING Lab!!! However, I reserve the right to give consideration to special cases only during lecture if seats are available.**

## V. COMMUNICATION:

This class may be very large or I may teach multiple courses. When communicating through e-mail, clearly identify yourself (first and last name), course (BIOL-5), and section/schedule # (**54218** or **55190**). Always include section/schedule number and printed name near the top on all assignments, tests, correspondence, etc.

Ensure your student email address (@mysccd.edu) in Canvas is correct. Occasionally, I will send emails informing you when test scores have been posted or other announcements. If your student email address has not been correctly listed in Canvas, you will not receive this information. Include your name and email addresses in your email address book so your spam filter does not reject emails from Canvas.

## VI. SUPPLIES:

Microscopes and lab supplies will be made available for each laboratory. **You are responsible for any lost or broken laboratory materials and a replacement fee may be charged.** Goggles with a Z87 rating must be worn during some lab activities. I will specify when goggles must be worn. General use student goggles will be available.

## VII. EVALUATION OF STUDENT PROGRESS:

**A. Grading:** Your grades will be posted to the Canvas Grade Book. You will be responsible for reviewing the scores posted to the Canvas Grade Book for transcription errors. Errors will only be corrected after the original document has been presented to the instructor to verify that an incorrect score was recorded. Assessment of your progress in the course will be based upon the following:

<b>Description</b>	<b>Points Possible</b>
Lecture Exams (5@100 points each; lowest score dropped)	400
McGraw-Hill Education Connect Readings	100
Lab Exams (2@75 points each)	150
Laboratory Review (14@10 points each)	140
Laboratory Drawings (12@5 points each)	60
Quizzes (11@10 points each; lowest score dropped)	100
Term Paper	100
Group Presentation	50
<b>Total Points =</b>	<b>1100</b>

≥ 90% = A  
 ≥ 80% = B  
 ≥ 70% = C  
 ≥ 60% = D  
 ≤ 59% = F

Your final grade for this course is based on the combined scores of lecture and lab. **Keep all graded material until you receive a final grade for the course.**

**B. Lecture Exams:** May be any combination of **100 multiple choice and True/ False questions**, which must be recorded on an 882-E scantron. There will be extra credits, which may vary from multiple choice, true/false, short response, to drawings or diagrams with explanations. The final exam is **comprehensive**. Of the 5 exams, the lowest score will be dropped. If your exam score is dropped, your extra credit for that exam will not be counted towards your final grade. You are **required** to take all exams. This gives you an opportunity to increase your grade by replacing a lower exam score.

Since the laboratory activities support the material covered during the lecture, understanding the concepts covered during the lab activities may be critical for the best possible lecture test score. Knowing and understanding the material in lectures and labs are critical in passing the exams. See the Course Schedule for the tentative test dates. The exact dates may be modified if lecture schedule becomes delayed. The goal is to follow the tentative lecture schedule.

**Lab Practical Exams:** May be any combination of **75 multiple choice and True/False questions**, which must be recorded on an 882-E scantron. It will include multiple stations with **2 - 3 questions each; each student will have 2 - 3 minutes** to answer all the questions per station and must rotate to the next station when instructed to do so. The practical is based on the work done in the laboratory. Some lab exam questions may come directly from the completed labs. There will also be extra credits, which may vary from multiple choice, true/false, short response, to drawings or diagrams with explanations.

**Lab practical exams cannot be made up. No exception!!! Lecture exams cannot be made up**, unless extreme circumstances, documented in writing, are provided. The instructor holds final decision on what constitutes an acceptable circumstance. Lecture or lab exams must be taken during the class period for which each student is enrolled. Make-up exams will **ONLY** be offered with prior approval by the instructor and must be taken before or on the day of the actual exam. Please do not miss the exams.

**C. Quizzes** will occur on dates specified on the course schedule online through McGraw-Hill Education and must only be done during lecture. Quizzes are given 5 minutes after the start of the class period and last for 15 minutes from the start time; if you are late after 15 minutes, your quiz will be automatically submitted with a score of "0." Even if you are absent for the day and you decide to do the quiz outside of class, your score will automatically be considered a "0." For example, **section 54218** will have between 3:05 PM and 3:25 PM to start and finish their quiz. **Section 55190** will have between 6:05 PM and 6:25 PM to start and finish their quiz. Quizzes cover contents from the previous lecture and may include combination of multiple-choice and True/False questions.

**D. McGraw-Hill Education Connect Readings:** You will need the CONNECT access code in order to complete the homework. Connect Reading are due on the designated date specified on the schedule. They are due the night before your lecture. For example, **Section 54218's** is due on Tuesday night and **Section 55190's** is due on Wednesday night. This will keep you on track and up to date to do well on your quizzes and exams.

**E. Lab Review:** You must **purchase the Lab Manual**. Photocopies of the Lab Manual **will not be accepted** unless the bookstore has insufficient copies for each student to purchase their own lab manual. Any lab assignments with any photocopied answers will receive a score of "0". In order to receive a high grade, proper grammar and spelling are critical as well as answering the questions thoroughly with the correct responses on all lab assignments. **Grade = # of correct answers/total x 10; rounded to the nearest tenth place**

During labs, you are encouraged to work together with other students in groups; however, **you must complete your own lab assignments individually**. The instructor will attempt to return corrected labs the lab period after they have been received or during lecture so that corrected labs may be available for lab test study purposes. **Lab Drawing** is due at the following lab period. Instructions will be given at the beginning of lab. In order to receive full credits, you must draw and always label. These are easy 5 points assignment. **Print your name and section/schedule number at the top of the first page.**

If you leave lab early without letting the instructor know, you will automatically get a score of "0" on your lab review for that day. If you do not do the lab activities or you are not on task during lab, your lab review score for that day is also a "0." Please use scissors to cut it neatly or you will automatically **get 2 points deducted** from your homework score. **Lab Review** is due at the end of the lab period for that day. **The instructor does not accept late review. No exceptions!** Some labs are very time consuming. Some labs are short and have been combined so 2 labs are completed during a single lab session. Most labs have a significant work book activity to complete. Read the lab prior to the lab session. Identify the activities that must be completed in the lab. Complete the work book sections during lab so you can review your answers with your lab partners. Complete the lab homework after lab.

If you miss a lab, it is your responsibility to obtain the lab data from your lab partners. Make-up lab times will not be available due to time and space constraints. **NO EXCEPTIONS!!!**

**F. Term Paper:** Instructions will be provided in a separate document. The term paper (both hard and electronic copy) is due by **Wednesday, October 31<sup>st</sup> 2018 for Section 54218 and Thursday, November 1st, 2018 for Section 55190. Late papers will lose 10 points for each day (including weekends) late after these dates.** Papers submitted before or on **Wednesday, October 24<sup>th</sup> 2018 for Section 54218 and Thursday, October 25<sup>th</sup>, 2018 for Section 55190** will earn a 10 point bonus (maximum 110 points recorded toward total course points). Submission after **these dates will not receive the bonus 10 points.**

**G. GROUP PRESENTATIONS** is worth **50 points** of your total overall grade. The class will be broken up into groups of 3-4 students. Each group of students will choose a disease. At the conclusion of the semester, each group will give a 15-20 presentation to the class describing the disease, which may include **introduction, history, genetics, clinical manifestations, diagnosis, management and treatment, pathogenesis (relationship of molecular defect to the clinical manifestations), special clinical issues, public health screening,** or anything that is appropriate for your topic. Numbers will be drawn at random to determine the order of which your group will present.

**H. NEWS ARTICLE EXTRA CREDIT:** You may write a brief summary and your thoughts/reactions of a **current news article (One page minimum double space, Times New Roman in 12 point font, 1 inch margins top, bottom, and sides)** related to biology, medicine, or health care for 2 points. **Half of your page should be the summary and the other half should be your thoughts/reactions.** Articles can be from newspapers, scientific journals or internet websites. You may **NOT** turn in information from textbooks, advertisements, wikis, blogs, or advice columns. You may turn in a **maximum of 5 articles** for the semester and **MUST** list where you obtained the information, e.g., the title of the article and newspaper or journal, or the URL for full credit. They are due the day of each lecture exam. For example, the first one is due on the day of the first lecture exam, the second one is due on the day of the second lecture exam, and so forth. **No Exceptions!** Thus, you have the advantage of receiving two extra points added towards each of your lecture exam score.

**KAHOOT ONLINE EXTRA CREDIT:** These are online practice questions straight from the lecture that **will be counted as extra credits** and are only done during class time after each lecture. These questions will not be posted anywhere; so it is best if you come to class and take advantage of this opportunity. You may use either your smart phone or laptop to answer the questions. A survey will be held on the first day of lecture to introduce and explain in further detail how and when I will implement Kahoot. The group with the highest score each week will receive 1 point extra credit towards their final grade at the end of the semester. The faster you answer correctly, the higher your score will be.

**VIII. ACADEMIC DISHONESTY:** Students at State Center Community College District are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly obtained. 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 dishonest in any form is a very serious offense and will incur serious consequences. **I DO NOT TOLERATE CHEATING!!! 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.**

**IX. PLAGIARISM:** Plagiarism is the adoption or reproduction of the ideas or words or statements of another person without due acknowledgment. This can range from borrowing without attribution a

particularly apt phrase, to paraphrasing someone else's original idea without citation, to wholesale contract cheating.

**X. CHEATING:** Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers in an attempt to gain an unearned academic advantage. Cheating can take the form of crib notes, looking over someone's shoulder during an exam, or any forbidden sharing of information between students regarding an exam or exercise. Also, the storing of information in graphing calculators, cell phones, and/or other electronic devices has cropped up since the information revolution began.

Incidents of cheating and plagiarism may result in a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course at the discretion of the instructor and depending upon the severity and frequency of the incident(s) in question. 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. Be aware that the procedures require a written notification to the dean that will become a part of your permanent record.

#### **XI. MISCELLANEOUS:**

**A.** If you should experience difficulty understanding the material presented in the course, it is your responsibility to see the instructor at the earliest possible time.

#### **B. Professional Behavior is expected at ALL TIMES**

Please respect other student, the laboratory materials, and the instructor. Disruptive behavior that interferes with the teaching and learning processes will be cause for appropriate penalties as described under "University Policies" below.

**C.** You are to report any injury or accident that occurs in the lab to the instructor immediately. Wear appropriate clothing to lab. **Open-toed shoes will not be allowed.** If I notice anyone with open-toed shoes in the lab, that person will be asked to immediately leave the lab room and may receive a score of "0" for that lab.

**D.** 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.

**E.** No food or beverages allowed. Cell phone use will not be tolerated in this class; turn off your cell phones prior to class. If you are on call, or expecting an emergency phone call, place your cell phone on silent and let me know at the start of class and sit by the door to minimize disruption to the class. **Any phone use during any test may result in a score of "0". However, I reserve the right to give consideration to special cases/circumstances.** 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.



**F.** Only authorized persons (students enrolled in the class) are allowed in the classrooms. **NO CHILDREN OR VISITORS IN CLASS AT ANY TIME.** In order to promote a positive learning environment, please make arrangements for your child's care while class is in session. **However, I reserve the right to give consideration to special cases/circumstances.**

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

**XII. ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:** Students with diagnosed disabilities should contact the Disabled Students Programs and Services' (DSP&S). Please give the instructor 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 the instructor have the letter no less than three days before the test. "If you have a verified need for an academic accommodation or materials in alternate media (ie: Braille, large print, electronic text, etc.) per the American With Disabilities Act or Section 504 of the Rehabilitation act please contact the instructor as soon as possible."

**XIII. HOW TO DO WELL IN THIS COURSE:**

**A.** You are expected to **spend 2-3 hours** outside class work for every hour in-class (10 to 15 hours per week for this course) excluding test study time for this biology class. Some of this time, especially for the labs, should be completed prior to the class. Get rid of distracting elements such as television, radio, friends, and roommates etc. Log your time (don't count breaks)

**B.** Listen and take good notes. (You may use a tape recorder if you wish.) Organize your notes and rewrite and/or type as necessary. I lecture from overheads which are figures from the text, so you may want to take notes in your text during the lecture. **Review your notes frequently.** Please feel free to contact the instructor if you are having difficulties.

**C.** Do your reading assignments **prior** to the lecture on that particular topic. Read your labs prior to the lab period.

**D.** Keep a **vocabulary list** of all **terms** mentioned in lecture, in bold print in the text, listed at the end of each chapter, or those that I write on the board. Know the **meaning** of each of these terms and the correct spelling.

**E.** Do your studying in small doses. Review notes for **15-30 minutes** at one time. Reading assignments are best done by spending an hour or two at one time. Don't try to complete your five hours all in one sitting or on the same day, as your efficiency will drop dramatically. **Try to spend some time studying each day.** Review an additional 3-5 hours prior to mid-term examinations. All of the test questions will be covered in the lectures and/or in the text, but maybe not both.

**F.** Form study groups to work together. Make your own review sheet if you form your own study group, have each person make a review sheet for a chapter and then share with each other - teach each other. Use all the materials available, text, internet sites, etc. If one study method does not work, try another.

**G.** Make flash cards.

H. Recent research has verified that the 3 Rs is an effective study method:

**R**ead  
w**R**ite  
**R**ecite

Read the text and lab manual. Then write down what you have read in your own words. Then recite what you have written without looking at what you wrote. Do not confuse recognition (flipping through the text or your notes and saying “I know this”) with actually being able to write or draw or describe the item. Make your own review sheet (a much more effective learning process than trying to memorize a review sheet prepared by someone else). **Although the exams are all multiple choice, you need to know the contents and understand the concepts in order to do well: see below.** Make-up short answer or essay questions and then write the answers and recite the answers. Practice the drawings. This would be a good study group activity. Prepare your own review sheet. Compare your review sheet to review sheets prepared by your study partners.

**Example:**

1. What is true about the arteries?
  - A. It always carries oxygenated blood
  - B. It carries blood away from the heart**
  - C. A & B are both true
  - D. The pulmonary artery carries oxygenated blood
  - E. None of the above

**I. You should not be learning anything new the night before the exam. You should be reviewing. You will never have time for anything if you do not make time for it. No excuses!!!**

**J. 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”.

**You will be asked to leave if you are being disruptive to the class! No exceptions!!!**

## **XV. TENTATIVE LECTURE AND LABORATORY SCHEDULE:**

You are responsible for following the schedule including any changes or corrections that may be made during the semester. Such changes or corrections will be announced verbally in class and may be posted on Blackboard. So be sure to ask your fellow classmates if you missed anything.

**Biology 5 Fall 2018 Schedule (Tentative Schedule- subject to change without notification)**

Wk	Dates	Lecture	Lab	Ch	Homework
<b>Wk 1</b>	8/13/18	Introduction; Term Paper	Introduction: Laboratory Safety	Ch 1	Lab Drawing 1: Light Microscope due next lab period  Ch 1 & 2 CR Due the night before your next lecture at 11:59PM
		Exploring Life and Science	Lab 3 - Light Microscopy Lab Review 3		
		Chemistry of Life		Ch 2	
<b>Wk 2</b>	8/20/18	<b>Quiz 1(Ch 1 &amp; 2)</b> Cell Structure and Function	Lab 4 – Chemical Composition of Cells Lab Review 4	Ch 3	Ch 3 & 22 CR Due the night before your next lecture at 11:59PM
		DNA Biology and Technology		Ch 22	
<b>Wk 3</b>	8/27/18	<b>Quiz 2(Ch 3 &amp; 22)</b> Patterns of Chromosomes Inheritance	<b>Monday’s Lab(54218) – Must also do Lab 17 – DNA Biology and Technology</b> <b>Lab Review 17</b>	Ch 19	<b>Monday’s Lab(54218) – Must also do Lab Drawing 3: DNA/RNA Molecule due next lab period</b>  Lab Drawing 2: Anatomy of Human Cell due next lab period  Ch 19 & 20 CR Due the night before your next lecture at 11:59PM
		Cancer	Lab 5 – Cell Structure and Function Lab Review 5	Ch 20	
<b>Wk 4</b>	9/3/18	Review  <b>Lecture Exam #1 (Ch 1, 2, 3, 19, 20, 22)</b>	<b>Monday’s Lab(54218) – No class! Labor Day</b>  Lab 17 – DNA Biology and Technology Lab Review 17		Lab Drawing 3: DNA/RNA Molecule due next lab period
<b>Wk 5</b>	9/10/18	<b>Quiz 3(Ch 19 &amp; 20)</b> Patterns of Genetic Inheritance	Lab 15 – Mitosis and Meiosis Lab Review 15	Ch 21	Lab Drawing 4: Mitosis/Meiosis due next lab period  Ch 21 & 4 CR Due the night before your next lecture at 11:59PM
		Organization Regulation of Body Systems		Ch 4	
<b>Wk 6</b>		<b>Quiz 4(Ch 21 &amp; 4)</b>	Lab 16 – Human Genetics	Ch 5	Ch 5 & 6 CR

	9/17/18	Cardiovascular Systems: Heart and Blood Vessels	Lab Review 16		Due the night before your next lecture at 11:59PM
		Cardiovascular Systems: Blood		Ch 6	
<b>Wk 7</b>	9/24/18	<b>Quiz 5(Ch 5 &amp; 6)</b> The Lymphatic and Immune Systems	Lab 6 – Body Tissues Lab Review 6	Ch 7	Lab Drawing 5: 3 types of Epithelial Tissue due next lab period
		Biology of Infectious Disease		Ch 8	Ch 7 & 8 CR Due the night before your next lecture at 11:59PM
<b>Wk 8</b>	10/1/18	<b>Quiz 6(Ch 7 &amp; 8)</b> Digestive System and Nutrition	Lab 8 – Cardiovascular System Lab Review 8	Ch 9	Lab Drawing 6: Anatomy of Heart(Internal & External) due next lab period
		Respiratory System		Ch 10	Ch 9 & 10 CR Due the night before your next lecture at 11:59PM
<b>Wk 9</b>	10/8/18	Review <b>Lecture Exam #2 (Ch 4, 5, 6, 7, 8, &amp; 21)</b>	Lab 11 – Homeostasis Lab Review 11		Lab Drawing 7: Nephrons & Tubules due next lab period
<b>Wk 10</b>	10/15/18	<b>Quiz 7(Ch 9 &amp; 10)</b> Urinary System	<b>Lab Practical Exam 1</b>	Ch 11	Ch 11 & 12 CR Due the night before your next lecture at 11:59PM
		Skeletal System		Ch 12	
<b>Wk 11</b>	10/22/18	<b>Quiz 8(Ch 11 &amp; 12)</b> Muscular System	Lab 12 – Musculoskeletal System Lab Review 12	Ch 13	Lab Drawing 8: Muscle fiber/tissue due next lab period
		Nervous System		Ch 14	<b>Term Paper Bonus Due</b>  Ch 13 & 14 CR Due the night before your next lecture at 11:59PM

<b>Wk 12</b>	10/29/18	<b>Quiz 9(Ch 13 &amp; 14)</b> Senses	Lab 13 – Nervous System and Senses Lab Review 13	Ch 15	Lab Drawing 9: Eye/Ear Structure due next lab period  <b>Term Paper Due</b>
		Endocrine System		Ch 16	
<b>Wk 13</b>	11/5/18	Review  <b>Lecture Exam #3 (9, 10, 11, 12, 13, &amp; 14)</b>	<b>Monday’s Lab(54218) – Must also do Lab 14 – Reproduction and Development</b> Lab Review 14  Lab 7 – Organization of the Body Lab Review 7		<b>Monday’s Lab(54218) – Must also do Lab Drawing 11: Male/Female Reproductive Structure due next lab period</b>  Lab Drawing 10: Human Organ Systems due next lab period
<b>Wk 14</b>	11/12/18	<b>Quiz 10(Ch 15 &amp; 16)</b> Reproductive System	<b>Monday’s Lab(54218) – No class! Veteran’s Day</b>  Lab 14 – Reproduction and Development Lab Review 14	Ch 17	Lab Drawing 11: Male/Female Reproductive Structure due next lab period  Ch 17 & 18 CR Due the night before your next lecture at 11:59PM
		Development and Aging		Ch 18	
<b>Wk 15</b>	11/19/18	<b>Thursday’s Lecture(55190) - No Class! Thanksgiving Break</b>	<b>Lab Practical Exam 2</b>		
<b>Wk 16</b>	11/26/18	<b>Quiz 11(17 &amp; 18)</b> Human Evolution & Biodiversity	Lab 18 – Human Evolution Lab Review 18	Ch 23	Lab Drawing 12: Homologous & Analogous Structures due next lab period  Ch 23 CR Due the night before your next lecture at 11:59PM
		Review			

<b>Wk 17</b>	12/3/18	Review  <b>Lecture Exam #4 (15, 16, 17, 18, &amp; 23)</b>	Group Presentations!		
<b>Wk 18</b>	12/10/18	<b>Final Exam (Cumulative: All Ch) Section(54218) – Monday: 3 PM – 5:50 PM  Section(55190) – Tuesday 6 PM – 8:50 PM</b>	<b>No Labs – Finals Week</b>		