San José State University

Department of Biological Sciences
Biology 21 – Human Biology (Poffenroth) : FALL 2014

Read the entire syllabus, as it is a contract between you and your instructor.
Your continued enrollment in this course implies that you agree to all terms in this contract.

Contact Information

Instructor: Mary Poffenroth, M.S.
Office Location: Duncan Hall 447/448
Telephone: 408-924-4831
Email: Mary.poffenroth@sjsu.edu It is best to email me any questions or concerns. For email, I will respond within 48 business hours. Please do not expect a response late at night or on weekends. Your email must be in grammatically correct English, with proper salutations, in order to receive a response.

Office Hours: Monday & Wednesday 0900 – 0930 MD101 &
Tuesday 10:30 – 1:30 pm DH447
Class Days/Time: MW 8:00-8:50 am and Drop in Laboratory (See Below)
Classroom: Morris Daley Auditorium
Class Website: http://www.sjsu.edu/at/ec/canvas/
GE/SJSU Studies Category: Area B2 & B3

Canvas, Faculty Web Page and MYSJSU Messaging

Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on Canvas, http://www.sjsu.edu/at/ec/canvas/. You are responsible for regularly checking with the messaging system through Canvas and MySJSU to learn any updates. If you have any issues accessing Canvas or MySJSU, you must address these directly with the University HelpDesk – I do not have that level of access to assist you (https://isupport.sjsu.edu/ecampus)
**Course Description**

Human biology is the “science of you,” and as such covers a broad spectrum of topics, including different body systems (e.g., nervous, circulatory, skeletomuscular, etc.) and processes (e.g., the immune response, digestion, genetic variation, etc.). Our goal in Bio 21 is to enhance your knowledge of these basic systems and processes in a way that is relevant to your health and well-being. Check CANVAS for Copies of the PowerPoints, Study Guides, Assignments, Handouts and Announcements! It is your responsibility to come to class and keep up to date with announcements via email and Canvas.

**Course Goals and Learning Objectives**

**GE Learning Outcomes (GELO)**

General Education objectives specify that Biology 21 students should learn how to:

To use methods of science and knowledge derived from current scientific inquiry in life science to question existing explanations (Written assignments; all Labs; Midterm 1, 2, Final)

To demonstrate ways in which science influences and is influenced by complex societies, including political and moral issues (Written assignments; Labs on development, DNA, cloning; Final)

To recognize methods of science, in which quantitative, analytical reasoning techniques are used (graphs, testing hypothesis, applying theories) [Written assignments; Labs on Circulation, Respiration; Midterm 2]

To discuss biodiversity in terms of interaction between humans, cultures, and other organisms (including humans of differing age, medical conditions, etc.) [Labs on osteoporosis, hearing, pulse/age, vital capacity, reproduction, cancer detection, development, genetic variation, sickle cell counselor]

To understand material, be able to organize it logically, compare and contrast facts and ideas, and draw conclusions (Written assignments; most Labs)

To apply comprehension and thinking skills in working with research materials in a manner leading to clarity, concise-ness, and coherence in writing (Written assignments; most Labs)

Course content goals for Biology 21 are that students learn relationships for:

- Structures and functions of living organisms  (Midterms and Final; most Labs) Levels of organization of living systems, from atom to planet (Midterms and Final; most Labs)
- Strategies for survival and reproduction  (Midterms and Final; esp. Labs on reproduction, development, genetic variation)
- Patterns of evolution  (Midterms and Final; Labs on reproduction, development, genetic variation)
- Principles of genetics, including basis for variation  (Final; Labs on development, genetic variation)
- Interaction of organisms and their natural environment  (Midterms and Final)

**General Education goals include writing 1500 words. This requirement is met through the written assignments and assignments in the Lab Manual.**
Required Materials

- **Human Biology Lab Manual** (Required). Your name must be written on the cover and first page of your Lab Manual for credit. Each student must have his or her own lab manual. You may not share lab manuals nor are photocopies of lab manuals acceptable. You must have a lab manual BEFORE attending lab orientation. You may purchase your lab manual NOW at [http://www.amazon.com/Bio-Lab-Manual-laboratory-accompany/dp/1500731196/ref=sr_1_1?ie=UTF8&qid=1408042717&sr=8-1&keywords=human+biology+mcgee](http://www.amazon.com/Bio-Lab-Manual-laboratory-accompany/dp/1500731196/ref=sr_1_1?ie=UTF8&qid=1408042717&sr=8-1&keywords=human+biology+mcgee) or with the Spartan Bookstore

- **Visualizing Human Biology Textbook**, (Required/See Lecture for More Information: eBook or hardcopy – either format is fine). 3rd OR 4th edition is acceptable. Author: Ireland. Publisher: Wiley - Pay special attention to the in-depth features in each chapter, the highlighted "stories". *If you do not wish to purchase a textbook at this time there are free copies available for use in the lab, DH448 or on course reserve in SJ MLK Library.* I have also arranged special direct to student pricing with the publisher through this link: [http://www.wiley.com/WileyCDA/Section/id-814593.html](http://www.wiley.com/WileyCDA/Section/id-814593.html)

- **Science Communication for Non-Majors** (Required: Poffenroth/Cognella). Please see future announcements for purchasing information. eBook and Hardcopy available beginning in September. This will be instrumental for your 150 point, 5 part assignment, Humans and the Global Environment. Once I have purchasing information from Cognella I will share it with you.

- **15 Scantron 882-E** plus a #2 pencil for Quizzes & Exams. We will be testing out Via Response System for weekly quizzes, but have a Scantron always on you just in case.

- **A hard surface to write on** during quizzes and exams. MD101 does not have desks. Your surface must not be any Bio 21 materials and must be free of writing.

- **Earbuds/Headphones** (Required): You will need to bring your own pair of earbuds or headphones to LAB.

Library Liaison

Emily Chan
Martin Luther King, Jr. Library
4th Floor, Office 4049
(408) 808-2049
Emily.Chan@sjsu.edu

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of **forty-five hours for each unit of credit** (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in [University Policy S12-3](http://www.sjsu.edu/senate/docs/S12-3.pdf).
Total Points

Exam 1 75
Exam 2 75
Exam 3 (Final) 100
Lecture Quizzes/Activities (up to) 150
Self-Guided Weekly Labs (lowest lab dropped) 180
Humans in a Global Community Writing Project 150
Sustainability Case Studies (In-Class) 20

750

Grading Scale (In percentages below, .49 and below will be rounded down, .50 and above will be rounded up):

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>99-100</td>
</tr>
<tr>
<td>A</td>
<td>92-98</td>
</tr>
<tr>
<td>A-</td>
<td>90-91</td>
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<tr>
<td>B+</td>
<td>88-89</td>
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<tr>
<td>B</td>
<td>82-87</td>
</tr>
<tr>
<td>B-</td>
<td>80-81</td>
</tr>
<tr>
<td>C+</td>
<td>78-79</td>
</tr>
<tr>
<td>C</td>
<td>72-77</td>
</tr>
<tr>
<td>C-</td>
<td>68-71</td>
</tr>
<tr>
<td>D+</td>
<td>65-67</td>
</tr>
<tr>
<td>D</td>
<td>60-64</td>
</tr>
<tr>
<td>D-</td>
<td>58-59</td>
</tr>
<tr>
<td>F</td>
<td>0-57</td>
</tr>
</tbody>
</table>

Course Grade: The percentage earned out of 750 points determines the semester grade – Grades will NOT be Curved. Grades will be posted ON CANVAS each week. You will have two weeks from the posting of each grade update to address any concerns/mistakes with your instructor. After this, grades will become permanent and unchangeable. It is YOUR responsibility to ensure your grade is correct weekly. Incorrect grade change requests at the end of the semester will absolutely not be honored.
Grade Discrepancies: If you have the following issues, please see a TA during any open lab hours.
- You did not receive your 5 points for having your lab book checked off but you in fact have a TAs signature. Take your lab manual and show it to a lab TA and they can help you.
- You did not receive a lab quiz grade (or it is incorrect) or a lecture quiz grade. A lab TA can pull your records and assist you in this matter.
- You wish to review your scantron from your lecture quiz (the following week) or review your electronic lab quiz (the week AFTER the lab is over) – please see a TA ONLY during slower lab times when they are not needed to check in/out a student.
You have 2 weeks from the time of posting to address any concerns, after that your grade is permanent.

Any other issues please email/see me in person. Again, you have 2 weeks from the time of the grade posting to make contact with either a TA or the instructor. At that point, the grade will become permanent.

Additional Information on Exams, Papers and Labs
Three lecture exams, up to 12 UNANNOUNCED Lecture Quizzes (10 points each, NO MAKEUPS), a multi-part written paper and 13 lab activities (15 points each, the lowest score is dropped – Absolutely no lab makeups) are given. Exams are multiple choice (entered on ScanTron 882-E) and some exams may include an essay question (we will provide paper). There are no bathroom breaks during this 50 minute exam, please plan accordingly. All exams are closed note, closed neighbor. You must bring a picture ID to the exam. The penalty for not bringing an ID to the exam is minus 5 points off your exam score. Material will be from course activities (lecture and lab). Exam 3 is the Final. The final is not cumulative.

Multimedia Learning Lab (DH 448): Each week’s lab in DH 448 consists of self-paced activities at lab benches and at the computer. Bring your Student ID and lab manual to each lab. Only students enrolled in Bio 21, with student ID, are allowed in the lab. No food or drink in lab. Note: you will often need a partner for lab assignments – get to know people in class. Lab will take about three hours to complete each week. To earn credit for each week’s lab you must do ALL of the following by the close of lab for that week: (1) complete the lab (including all Internet, computer, and lab bench components); (2) Have the lab TA sign your book and the log as completed (3) complete the lab quiz at the quiz station in the Bio 21 lab. Labs must be finished each week – they cannot be made up under any circumstances (our lab tech tears down lab each Friday evening). Make note: lab closes at 5:00 p.m. on Friday - arrive by 8:00 AM to ensure finishing. Also note that Fridays are the busiest times to try to get into lab – if you wait until the end of the week to come to lab, you do so at your own risk – you may very well get stuck waiting in the hall for several hours for a seat to open in lab. You may (and should) finish the online portions of each lab at home--this will cut down on the time you spend in the lab room. Your lab manual will be checked when you are finished each week. Every effort is made to ensure that your answers are accurate, but ultimately you are responsible for having each answer be correct.

If you leave your ID overnight and take our laminated seat card, you will not receive a grade for that weeks lab until the seat card is returned to us.

Weekly Lab Schedule: You are not required to finish the lab in one session; however, the lab and quiz must be completed by 5:00 p.m. Friday.

Special Note for Fridays Only: Last entry into lab on Fridays is at 4:15 pm and the waitlist to get your book checked off closes at 4:30 pm. The lab door closes and the quiz computers automatically shut off at 5:00 pm on Fridays. No late labs are accepted.—no exceptions. Lab will be open this semester during the following times:

Monday 0900 am - 9 pm | Tuesday 0730 am - 9 pm | Wednesday 0900 am - 9 pm
Thursday 0730 am - 9 pm | Friday 0730 am - 5 pm

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All students are required to attend one lab orientation in DH 448 between August 26 – September 5. Students missing the Orientation Lab will receive a zero for their entire semester lab grade! If you fail to attend lab orientation, you will not receive a grade for lab. Lab comprises 1/3 of your grade; therefore if you do not attend orientation, you will not be able to pass the class. You must sign up for your orientation time slot on Canvas. This is the only time you will need to sign up for a timeslot in lab. Instructions are in Canvas on how to perform this task.

**In Lecture Quizzes:** Unannounced quizzes will happen once a week on most weeks on either Monday or Wednesday at some time during the lecture. Some quizzes will happen at the very start of lecture, so you must always be on time to class. These quizzes cannot be made up. However, I will drop your lowest quiz score automatically for you at the end of the semester. Students may use one page of 8.5 x 11 handwritten, both sides, of notes for lecture quizzes only. These quizzes will be performed using Scantron 882E that you must provide.

**Humans in a Global Community Writing Project:** This is a multi-step project, worth a total of 150 points. More in depth information can be found on the Humans in a Global Community Writing Handout on Canvas.

**Turnitin.com:** Turnitin.com is a website that checks for plagiarism and allows for online grading by the instructor. In order to submit your assignments, please log on to this website and sign up for free account. The class code is: 8417471 the password is: sunshine This is where you will upload your completed writing assignment. You will then come back, when instructed, to view your comments, feedback and grades. Ensure you post your assignment to the correct folder within turnitin.com. No late assignments will be accepted and you can submit your assignment anytime before the due date. Please note that Canvas automatically creates an account for you, that I cannot access. Therefore, please be pay close attention to the class that you are in. If the course number in turnitin.com does not match the one above, you are not in the correct class and will not receive credit

**Missed Exams and Assignments**

For ONE missed Exam, the average of the other two is entered for the missed exam minus a 20% point deduction (i.e., no make-ups on exams). If you have a verifiable, documented emergency reason for missing an exam, please contact your instructor IMMEDIATELY. For a second or third missed exam a zero score will be entered. Students must arrive on time to take exams. If a student has already finished the exam and left the room by the time you arrive, you will not be able to take the exam under any circumstances. QUIZZES, EXAMS, AND LABS CANNOT BE MADE UP!

“**Extra Credit**”

15 points to your overall grade at the end of the semester: You will have one opportunity to complete one extra credit volunteer day. Only one extra credit opportunity can be completed per student. In addition, no previous volunteer experience is applicable and you must do one of the pre-approved organizations on our webpage at [http://www.sjsu.edu/people/mary.poffenroth/courses/volunteer/](http://www.sjsu.edu/people/mary.poffenroth/courses/volunteer/). Please read the details on this page carefully and follow the instructions. To receive credit you must do the following: attend one of the organization’s listed events from [http://www.sjsu.edu/people/mary.poffenroth/courses/volunteer/](http://www.sjsu.edu/people/mary.poffenroth/courses/volunteer/), it must be outdoors and at least 3 to 4 hours of volunteer time. While at the event, take your own picture there and have the coordinator sign off on the work hours sheet located under their name on our website. After you have gotten the signature on the completed worksheet (or if the organization has their own proof of volunteer sheet, that is acceptable too), write a one page, double-spaced, summary of your experience. You have the entire semester to complete this and the deadline to upload your completed form/picture/summary to Canvas is listed on our schedule at the end of this syllabus. Please scan/take a picture of your sign off sheet and place your summary, photo and sign off sheet image into ONE document when uploading into the Extra Credit folder on Canvas. You may upload these materials ANYTIME before the deadline, but not after. Extra credit points will be added to your overall grade at the end of the semester.
Incompletes
Incompletes are permitted only if a student is in good standing (has a passing grade), has completed at least two-thirds of the course, and has a verifiable serious and compelling reason to take an incomplete. An incomplete is not given due to poor performance.

Class & Exam Protocol

Email: Email will only be answered Monday–Friday with additional hours on the weekend before exams.

Email etiquette: Remember your audience. It is fine to write in “txt” to your friends, but not to your professors. Please use language and salutations that are becoming of a successful University student.

Classroom Conduct: You are required to be respectful during lecture and lab. If you are talking or disturbing the class in any way during lecture you will be asked to leave. LAPTOPS, CELL PHONES AND PDAS ARE PROHIBITED IN CLASS. Exceptions are made only by discussing this personally with the instructor and you must sit in the first row of the class, with your internet disabled. If you are found to be abusing this exemption at anytime during the semester, you will lose your electronics privileges. Absolutely no phones are allowed during class. If there is an emergency situation going on in your life where you need to be able to answer your phone, please come and tell me at the start of class.

Absolutely no unprofessional, derogatory, or abusive language or behavior will be tolerated, both in person or online.

Exams and Quizzes: You must arrive on time for class and for the exams! If you arrive late and miss a quiz, you will not be able to makeup that quiz. Any student who arrives after the first student has turned in the exam will not be permitted to take the exam. If you commute to campus, add in additional time for traffic and parking. All cell phones; electronic devices etc. must be turned off and put away during the exams/quizzes – absolutely no exceptions.

Graded Papers: Hardcopies of assignments that have been graded (that were submitted in hardcopy form) will be returned to you in the alphabetical storage box in our lab, DH448. Papers submitted electronically through turnitin.com will be returned to you via turnitin.com. An email will be sent once papers are ready for you to view in turnitin.com. Papers not collected by the last day of class will be recycled.

Attendance is not used as a criterion for grading, however, participation (which can be used will be assessed during class time and includes: pop quizzes, in-class writing assignments, conversation, multimedia, and discussion groups. In class assignments cannot be made up and will not be announced.

NOTE that University policy F69-24, “Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.”

University Policies

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html.
Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material
University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course.

- “Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor’s permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”

- “Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.” If you are found uploading, sharing, publishing, etc. any intellectual property without explicit written permission, appropriate legal action may be taken.

Academic Integrity
Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Campus Policy in Compliance with the American Disabilities Act
If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.

In 2013, the Disability Resource Center changed its name to be known as the Accessible Education Center, to incorporate a philosophy of accessible education for students with disabilities. The new name change reflects the broad scope of attention and support to SJSU students with disabilities and the University's continued advocacy and commitment to increasing accessibility and inclusivity on campus.
**Student Technology Resources**

Computer labs for student use are available in the [Academic Success Center](http://www.sjsu.edu/at/asc/) located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library. A wide variety of audio-visual equipment is available for student checkout from Media Services located in IRC 112. These items include DV and HD digital camcorders; digital still cameras; video, slide and overhead projectors; DVD, CD, and audiotape players; sound systems, wireless microphones, projection screens and monitors.

**University Help Desk**

The first point of contact for service and support to help you with password resets, login issues, email support and account requests. Located in Clark Hall, Room 102 Phone: 408.924.2377 Email: help@help.sjsu.edu Hours: Mon – Thur 8am - 9:45pm Fri 8:00am – 4:45pm [http://www.sjsu.edu/helpdesk/](http://www.sjsu.edu/helpdesk/) *You can also submit a help ticket using the University CANVAS Help Desk ticket

**SJSU Peer Connections**

Peer Connections, a campus-wide resource for mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).

Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit [Peer Connections website](http://peerconnections.sjsu.edu) at [http://peerconnections.sjsu.edu](http://peerconnections.sjsu.edu) for more information.

**SJSU Writing Center**

The SJSU Writing Center is located in Clark Hall, Suite 126. All Writing Specialists have gone through a rigorous hiring process, and they are well trained to assist all students at all levels within all disciplines to become better writers. In addition to one-on-one tutoring services, the Writing Center also offers workshops every semester on a variety of writing topics. To make an appointment or to refer to the numerous online resources offered through the Writing Center, visit the [Writing Center website](http://www.sjsu.edu/writingcenter) at [http://www.sjsu.edu/writingcenter](http://www.sjsu.edu/writingcenter). For additional resources and updated information, follow the Writing Center
on Twitter and become a fan of the SJSU Writing Center on Facebook. (Note: You need to have a QR Reader to scan this code.)

SJSU Counseling Services

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit Counseling Services website at http://www.sjsu.edu/counseling.

*** Scroll Down for Semester Schedule***
# Biology 21, Fall 2014, Course Schedule

*This schedule is subject to change with fair notice, which will be announced via Canvas.*

<table>
<thead>
<tr>
<th>Lecture Dates</th>
<th>Lectures (Location: MD101)</th>
<th>Lab Dates (Location: DH448)</th>
<th>Assigned Textbook Chapter Reading</th>
<th>Lab Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 25</td>
<td>Course Intro</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Aug. 27</td>
<td>Humans in a Global Community</td>
<td></td>
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<tr>
<td>Sep. 1</td>
<td>Labor Day – Campus Closed – No Class</td>
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<tr>
<td>Sep. 3</td>
<td>Chemistry of Life</td>
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<tr>
<td>Sep. 8 &amp; 10</td>
<td>Cells and Tissues</td>
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<tr>
<td>Sep. 15 &amp; 17</td>
<td>Enzymes/Digestive System</td>
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<tr>
<td>Sep. 22</td>
<td>Skeletomuscular System</td>
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<tr>
<td>Sep. 24</td>
<td><strong>Exam 1 – Sep. 24</strong> – Will cover all of the above, including skeletomuscular system</td>
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</tr>
<tr>
<td>Sep. 29 &amp; Oct. 1</td>
<td>Nervous System</td>
<td>Sep. 29 – Oct. 3</td>
<td>7</td>
<td>Lab 4 (Nervous System)</td>
</tr>
<tr>
<td>Oct. 6 &amp; 8</td>
<td>Blood/Circulation</td>
<td>Oct. 6 – 10</td>
<td>12</td>
<td>Lab 5 (Circulation)</td>
</tr>
<tr>
<td>Oct. 20</td>
<td>Renal System</td>
<td>Oct. 20 – 24</td>
<td>16</td>
<td>Lab 7 (Urinary: Online)</td>
</tr>
<tr>
<td>Oct. 22</td>
<td><strong>Exam 2 – Oct. 22</strong> Will cover Nervous System through Renal System. You do not need to have finished renal lab, but know renal lecture slides for exam</td>
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<tr>
<td>Oct. 27 &amp; 29</td>
<td>Immunity/ Evolutionary Arms Race</td>
<td>Oct. 27 - 31</td>
<td>9 &amp; 10</td>
<td>Lab 8 (Immunity)</td>
</tr>
<tr>
<td>Nov. 3 &amp; 5</td>
<td>Reproduction/&quot;Why Sex?&quot;</td>
<td>Nov. 3 - 7</td>
<td>18</td>
<td>Lab 9 (Reproduction)</td>
</tr>
<tr>
<td>Nov. 10 &amp; 12</td>
<td>Human Development</td>
<td>Nov. 10 - 14</td>
<td>19</td>
<td>Lab 10 (Development: Online)</td>
</tr>
<tr>
<td>Nov. 17 &amp; 19</td>
<td>Genetic Variation</td>
<td>Nov. 17 – 21</td>
<td>20</td>
<td>Lab 11 (Genetic Variation)</td>
</tr>
<tr>
<td>Nov. 24 &amp; 26</td>
<td>Diet &amp; Nutrition</td>
<td>---No Labs---</td>
<td>---No Labs---</td>
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</tr>
<tr>
<td>Dec. 1 &amp; 3</td>
<td>DNA &amp; Evolution</td>
<td>Dec. 1 – 5</td>
<td>2</td>
<td>Lab 12 (DNA: Online)</td>
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<tr>
<td>Dec. 8 &amp; 10</td>
<td>Humans and the Global Environment/ Semester Wrap Up</td>
<td>---No Labs---</td>
<td>21</td>
<td>---No Labs---</td>
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<tr>
<td>Dec. 12</td>
<td><strong>FINAL EXAM: Friday, December 12, 0715 - 0900</strong></td>
<td></td>
<td>100 points: covering everything since Exam 2</td>
<td></td>
</tr>
</tbody>
</table>

**Dec. 10: Extra Credit due to Canvas by 11:59 pm PST**

---No Labs---