

LECTURE INSTRUCTOR, Contact Info:

Amy Ziembra

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DO NOT email using Canvas

OFFICE HOURS: Immediately following lecture as needed.

LECTURE SECTION: T/Th: 6:00 – 7:20pm (Section 2011 in CY 2204)

COURSE DESCRIPTION:

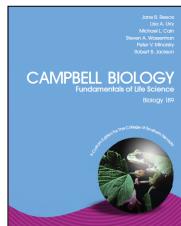
Biology 189 is a comprehensive, freshman-level biology course which serves to build a cornerstone of biological knowledge for students in the allied health field, and acts as an important prerequisite for anatomy and physiology and microbiology courses. The topics include biochemistry, cell structure and function, metabolism, cellular metabolism, physiology, genetics, and gene expression. Biology 189 is a 4-credit, lecture and lab course, and includes 3 hours of lecture and 3 hours of lab per week.

NOTES:

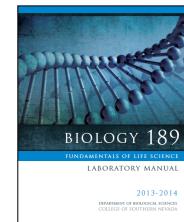
1. All students must be enrolled in the lecture section and one of the laboratory sections. You may or may not have the same lecturer and laboratory instructor. Once enrolled, students may not switch from one laboratory section to another without special permission from both laboratory instructors.
2. Students who: ① have little background in biology, ② score below 80 on the reading placement test available in the testing centre, or ③ below 2.25 on the Biol 189 preparedness assessment available on the Biol 189 Lab CANVAS site should consider enrolling in Biol 095 before taking Biol 189.
3. Delayed sections of Biol 095 (Friday 9.00 – 12.30pm) will begin **Friday 20 September**. Students who would like to transfer from Biol 189 to Biol 095 may do so with no additional tuition of fees, other than the purchase of a new textbook. **To transfer to Biol 095 call the Department of Biological Sciences at 702.651.5973. DO NOT drop Biol 189 through registration.**

TEXTBOOKS:

1. **REQUIRED:** Reece et al. (2011)
 Campbell Biology
 Pearson Education, Inc. USA.



2. **REQUIRED:** Dept. of Bio. Sci.,
 CSN (2013) Biology 189 Laboratory
 Manual. bluedoor Publishing. USA


COURSE OBJECTIVES:

Upon completion of this course, students should have a general understanding of:

1. The process of scientific inquiry and the defining properties of life
2. The properties of the major classes of biologically important molecules
3. The basic organization and structure of cells
4. The properties and function of cell organelles and membranes
5. Enzyme properties and basic thermodynamics as they apply to cellular energetics
6. The process of energy acquisition via cellular respiration
7. The basic principles of cell division for somatic growth and asexual reproduction
8. The processes of cell signaling and communication
9. Genes, alleles and patterns of inheritance
10. Chromosomes structure and the physical/chemical properties of DNA
11. Molecular genetic processes: DNA replication, transcription and translation
12. The regulation of gene expression

13. Human form and function: Introduction to human tissues types and histological identification

LECTURE ROOM ENVIRONMENT & STUDENT BEHAVIOR:

- You are expected to arrive on time and prepared to class as to not disrupt other students.
- Phones, MP3 players and other electronic devices must be turned off and put away during class.
- Recording devices are allowed only with the instructor's prior permission. Any recordings or information posted on the websites cannot be published or posted in any fashion (YouTube, Facebook, etc.).
- Phones **may not** be used as a calculator on exams. Bring a standard calculator if you require one.
- You are responsible for any material or announcements missed due to tardiness or absences.
- Please be respectful to the instructor and your fellow students. Instructors have the responsibility to set and maintain standards of classroom behavior appropriate to the discipline and method of instruction. Students may not engage in any activity the instructor deems disruptive or counter-productive to the goals of the class. Instructors have the right to remove offending students from class. Repetition of the offense may result in expulsion from the course.
- **Students are not allowed to leave the classroom during quizzes or exams for any reason.**
- Food is not allowed in the lecture rooms – caffeinated beverages are always welcome and encouraged ☺
- If I am unable to attend class (highly unlikely), I will try to notify students as far ahead as possible. If I am unable to do this and do not arrive within 20 minutes of the class starting time, then class is considered cancelled.
- I will not answer any email that does not have the student's name within the email or that is sent through CANVAS.

ACADEMIC DISHONESTY:

Cheating, plagiarism and any other acts of academic dishonesty are held as serious offenses. Instructors have the responsibility to report any such incident in writing to the Vice President for Academic Affairs. Serious penalties may be imposed which, depending on the nature of the incident, could range from grade reductions to permanent expulsion from the class or the college. If you participate in academic dishonesty it will result in failing the assignment/quiz/exam and possibly failing the course.

LECTURES:

A tentative lecture schedule is provided here and on learnbiology.org. Any significant changes in the lecture or exam schedule will be announced in class. You are responsible for this information, even if you are absent (it's good to make friends of fellow classmates). I will not review missed lectures.

EXAMS, GRADING:

Examinations are scheduled for the entire lecture period. You will need to do more than just recall definitions. You will need to comprehend and apply the material from lectures and the textbook. Make sure to bring a #2 pencil and a blue/black pen for all exams.

- There are 5 semester exams worth 100 points each. One of the regular exams will be dropped, which means **there are no make-ups for regular semester exams.** Total semester exam points is therefore **400 points.**
- If legitimate circumstances occur that causes the student to miss a second exam, a make-up may be arranged by contacting the instructor within **24 hrs** before the original exam date. All make-ups must be completed within two days of the original exam date. If this policy is not followed, a zero will be recorded for that exam. **MAKEUP EXAMS ARE ALL ESSAY.** Legitimate reasons include medical issues, family emergencies, etc.
- The exams will be a combination of multiple choice, true/false, matching, and molecule identification. However, the instructor may change the format of the exam, which will be announced in class prior to the exam.
- Semester exams are **NOT** comprehensive.
- The final exam **IS** comprehensive of all course material. It is worth 120 points. Please note that the final exam is scheduled for a two hour period. Be sure to make arrangements to be on time for all exams, you will not be allowed to continue past the allotted class time.

- Allow one week to grade exams. Once you receive your graded exam you have one week to look it over and inform me of any mistakes. After one week grades are final, including your confirmation of scores in CANVAS.

QUIZES:

There will be 5 quizzes worth 20 points each; the lowest quiz grade will be dropped, resulting in 80 total points from quizzes. All quizzes will be at the beginning of class, and we will immediately review the answers after its completion. If you arrive after the first student completes their quiz, you will not be allowed to take the quiz. Once your grade is posted on CANVAS you will have one week to look it over and inform me of any mistakes, after which the grades are final.

While taking online quizzes or assignments required for 189 labs, you are responsible for any and all technological problems. If you experience a power outage, CANVAS times out, etc- you cannot re-take the quiz. Thus, it is best to take online quizzes on CSN computers.

LABORATORY:

You are registered for 1 of numerous lab sections. You must attend the lab in which you are officially enrolled and be punctual. Lab policies and activities include weekly quizzes and participation. You may not switch lab sections without the permission of your original lab instructor and the receiving instructor. You may or may not have the same lab instructor as your lecturer. Your lab instructor will describe specific policies and procedures. Weekly quizzes will cover the material from the previous week's lab as well as questions from the lab scheduled for that day. This is to ensure that you thoroughly read and prepare for the lab. **There are no makeup labs for any reason.** You may earn up to 200 points for the lab, your lowest lab quiz / homework grade will be dropped. A written lab report and on line quizzes may be required in the labs.

There is only one grade for Biology 189. Your lab grade will be combined with your lecture grade at the end of the semester to give your final grade. Total possible points for the course is **800**.

4 Exams @ 100 pts each (5 th , lowest grade is dropped)	400 pts
4 Quizzes @ 20 pts each (5 th , lowest grade is dropped)	80 pts
Laboratory	200 pts
Final Exam	120 pts
Total Points	800 pts

The Department of Biological Sciences does not allow "extra credit" under any circumstance.

GRADE	PERCENT	POINT RANGE
A	90 – 100	720 – 800
B	80 – 89	640 – 719
C	70 – 79	560 – 639
D	60 – 69	480 – 559
F	0 – 59	0 – 479

To determine your percentage grade divide your total number of points by 800.

IMPORTANT DATES:

September 6	Last day to receive 50% refund for full-term session classes. Last day to officially drop without a grade of "W" for full-term courses.
October 11	Last day to apply for Fall 2013 graduation
November 1	Last day to officially change from credit to audit with instructor's permission
November 1	Last day to drop a class and receive a grade of 'W'
December 9-15	Final exam period

The final day to officially withdraw from this course is **Friday 1 November**. If you decide to withdraw from this course, you are responsible for going to the **Admissions and Records office** and filing the **appropriate paperwork** by the deadline. I will NOT withdraw any students after this date. Students remaining in the class after the withdrawal deadline will receive a grade. If you drop the course prior to this date, you will receive a grade of 'W' on your transcript.

COURSE WEBSITES:

CANVAS

CANVAS is CSN's Learning Management System (LMS). You can log in to CANVAS from CSN's homepage, click the link Online Campus / Courses. You can also enter <http://onlinecampus.csn.edu/default.asp> - bookmark this page for future use. To log on you will need:

Username = Your 10 digit NSHE ID (e.g. 0123456789).

Password = your birth date, YYMM – for example if you were born September 29, 1992, your password = 0992. If you have already activated your student account and changed your password, then use your original password.

Once you have logged into CANVAS, you will see the 'Courses' drop down menu at the top of the page. Clicking the 'Courses' drop down menu will show you your specific lecture section for Biol189 (e.g. BIOL189 – 2001-2003-2006-2007 - FALL 2013) and a single link for all lab sections (e.g. BIOL 189L – ALL FALL 2013), as well as a link for the other classes you are enrolled in this semester. Here you will find lecture material, handouts, lists of terminology, links, quizzes, assignments, study skills and study guides.

LEARNBIOLOGY

The official course website for this class can be found at: <http://ziemba.learnbiology.org/>

Next click on the link for Biology 189. Here you will find downloadable copies of this document, updated versions of schedules, lecture notes, etc. Lecture notes will be uploaded every weekend for the upcoming week's lectures.

MASTERING BIOLOGY

Go to this website www.masteringbiology.com. Bookmark this page for future reference. You will need to register as a student first. You will need to provide your access code which came with your textbook. Once you have set up your username and password, you should not have to use this access code again. This website has interactive summaries, animated tutorials, interactive tutorials, activities, links, flashcards and other resources broken into the chapters that we will cover in lecture. There should also be a link to this information from CANVAS.

STUDENT SERVICES:

Counseling/Advising

Helps students select courses, complete degree audits, obtain transfer information, and provide personalized assistance in developing educational and vocational plans appropriate to personal interests and abilities. On the CSN homepage select "Counseling Services" on the Quick Link menu.

Tutorial Services

All CSN students may receive up to 4 hours of free tutoring for each hour of a credit class. For Biology 189, students may request up to 12 hours of free tutoring. To make arrangements for this benefit, you must take your semester schedule to Tutorial Services at the campus of your choice and activate the CSN student email account. The earlier you apply for help, the more likely that you will succeed. On the CSN homepage select "Tutoring" on the Quick Link menu.

Math & Science Resource Centers

Take advantage of FREE individual and group drop-in tutoring offering assistance in various levels of math and science. On the CSN homepage type "Math and Science Resource Center" in the search field and click 'Go'.

TRIO Student Support Services

One stop shop for first-generation college, financial aid-eligible and disabled students offering tutoring, academic advising, career exploration, college-transfer assistance, and development of college success strategies. On the CSN homepage type "TRIO" in the search field and click 'Go'.

Library Services

College Library Services offers ongoing research workshops throughout the semester. Bring your topic or assignment to one of the workshops on the basics of locating and citing quality information and receive in-depth assistance with a librarian. On the CSN homepage select "Library" on the Quick Link menu.

Retention/Student Success Services

Trained specialists/advocates help students assess personal strengths and limitations, determine the root of a variety of academic struggles, develop college success strategies, implement action plans, learn to navigate the educational system, benefit from campus and community resources, and connect to campus life. On the CSN homepage select "Retention/Academic Success Services" on the Quick Link menu.

Faculty E-Alert (the Electronic Early Warning System)

Used by faculty members as a confidential means to submit to Retention Services the names of students having academic problems in a class, in order that they be offered timely assistance. Faculty places the referral through CSN's restricted Web Grading system. The E-Alert System is managed by the Office of Student Retention Services.

Counseling and Psychological Services (CAPS)

Offers a variety of **free and confidential** services for students. CAPS provides confidential short-term individual, couples, and family therapy; group therapy, support groups; and crisis intervention to assist students in mastering their current situation and acquire the skills, attitudes, and knowledge that will enable them to realize their full potential. On the CSN homepage select "CAPS" on the Quick Link menu.

Disability Resource Center

If you have a documented disability that may require assistance, you should contact the Disability Resource Center (**DRC**) located in the Student Service Center on each campus. This office also hires students as note takers, readers, proctors, scribes, lab assistants, and research assistants as needed. Interested students can fill out a job interest card at the DRC. On the CSN homepage select "Disability Resource Center" on the Quick Link menu.

STUDY SKILLS TIPS:

Everyone learns and studies differently. Below are some tips to help you get started.

1. Take studying seriously, this will determine your success in college
2. Time management is key, set up a weekly study calendar
3. Take good notes (use audio recorders if necessary with permission)
4. Always attend class
5. Avoid situations of academic dishonesty
6. Study often and early
7. Read your notes and the text **before** class
8. Read your notes and the text **after** class
9. Memorize important vocabulary – create flash cards
10. Answer the text's chapter questions
11. Form study groups



Tentative Schedule for Biology 189, Fall 2013
Sec 2011 (T/R 6-7:20) (lecture topics are subject to change)

Date	Lecture	Lecture Topic	Chapter
Aug 27	1	Introductions / Biology Fundamentals	Syllabus, 1
Aug 29	2	Chemistry – Chemical Bonds, Atomic Structure	2
Sep 3	3	Quiz 1- Chemistry: water, acids & bases	3
Sep 5	4	Macromolecules: Carbohydrates	4, 5.1, 5.2
Sep 10	5	Macromolecules: Lipids	5.3
Sep 12	Exam	Exam 1	
Sep 17	6	Marcromolecules: Nucleic acids	5.5
Sep 19	7	Marcromolecules: Proteins (Enzymes)	5.4, 8.1, 8.2
Sep 24	8	Marcromolecules: Metabolism and Enzymes	8.3-5
Sep 26	9	Quiz 2- Cell structure & function	6, 27.1
Oct 1	10	Cell structure & function-organelles	6, 27.1
Oct 3	Exam	Exam 2	
Oct 8	11	Cell membranes: transport	7
Oct 10	12	Cell membranes: signaling	7, 11
Oct 15	13	Quiz 3- Cellular Respiration	8.3, 9.1-9.3
Oct 17	14	Cellular Respiration	9.4-9.6
Oct 22	Exam	Exam 3	
Oct 24	15	DNA Structure and Replication	16
Oct 29	16	DNA replication	16
Oct 31	17	Cell Cycle & Mitosis	12.1, 12.2
Nov 5	18	Quiz 4- Cell Cycle & Mitosis	12.1, 12.2
Nov 7	19	Meiosis	12.3, 13
Nov 12	Exam	Exam 4	
Nov 14	20	Basic patterns of genetic inheritance	13.4, 14, 15
Nov 19	21	Gene Expression: Transcription & Translation	17.1-3, 18.1-2
Nov 21	22	Quiz 5- Translation & Viruses	17.4, 19
Nov 26	23	Cell differentiation & human tissues	18.4, 40.1
Nov 28		Thanksgiving – no class	
Dec 3	Exam	Exam 5	
Dec 5	24	Review	
Dec 10	Exam	final exam	
Dec 12		Final exam if necessary	