

BIOLOGY 100
PRINCIPLES OF BIOLOGY
 Dr. Moussa M. Diawara
 Spring Semester 2009 – CSU-Pueblo

Office: 246 Life Sciences Bldg.
 Office Hours: Monday 11-1; Wednesday 11-1; Thursday 11-12; or by appointment
 Tel/email: 549-2813/moussa.diawara@colostate-pueblo.edu
 Required Textbook: Biology, a Guide to the Natural World, 4th Edition by David Krogh
 Lecture Room: LS 105
 Lecture Hours: 1:00-1:50 M W F

Course goals:

- To offer learning environments in which students can create a base of knowledge and an understanding of the principles and concepts that represent the foundation underpinning the various facets of biological sciences.
- To provide the opportunity for students to become aware of the scientific method, the diversity of life, and the interconnections between cells and systems in a living organism.
- To facilitate the development of personal awareness of the relationships that persons have with their ancestors and offspring and how their lifestyle or environment could impact such relationships.

Course schedule

<i>Week</i>	<i>Date</i>	<i>Discussion Topic</i>	<i>Reading</i>
1	12 Jan	Introduction – Science as a way of learning	Ch 1
	14 Jan	Science as a way of learning	Ch 1
	16 Jan	Chemistry and building blocks of life	Ch 2
2	19 Jan	Biological molecules	Ch 3
	21 Jan	Cell structure and function	Ch 4
	23 Jan	Cell structure and function	Ch 4
3	26 Jan	Plasma membrane	Ch 5
	28 Jan	Energy for life	Ch 6
	30 Jan	Deriving energy from food	Ch 7
4	2 Feb	Exam 1	
	4 Feb	Genetics and cell division 1	Ch 9
	6 Feb	Genetics and cell division 2	Ch 9
5	9 Feb	Meiosis	Ch 10
	11 Feb	Mendel and his discoveries	Ch 11
	13 Feb	Chromosomes and inheritance	Ch 12
6	16 Feb	DNA structure and replication	Ch 13
	18 Feb	Protein synthesis	Ch 14
	20 Feb	Biotechnology	Ch 15
7	23 Feb	Exam 2	
	25 Feb	Anatomy and physiology	Ch 26
	27 Feb	Nervous system	Ch 27
8	2 March	Endocrine system	Ch 27
	4 March	Immune system 1	Ch 28
	6 March	Immune system 2	Ch 28
9	9 March	Blood, circulation and respiration	Ch 29
	11 March	Digestive and excretory systems	Ch 30
	13 March	Human reproduction	Ch 32
10	16 March	Exam 3	
	18 March	Evolution 1	Ch 16, 17 & 18

	20 March	Evolution 2	Ch 16, 17 & 18
11	23-27 March	<i>Spring Break</i>	
12	30 March	Photosynthesis	Ch 8
	1 April	Diversity of life: Bacteria	Ch 21
	3 April	Diversity of life: Protista	Ch 21
13	6 April	Diversity of life: Fungi	Ch 22
	8 April	Flowering plants 1	Ch 24
	10 April	Flowering plants 2	Ch 25
14	13 April	Exam 4	
	15 April	Invertebrate animals 1	Ch 23
	17 April	Invertebrate animals 2	Ch 23
15	20 April	Vertebrate animals	Ch 23
	22 April	Populations in ecology	Ch 33
	24 April	Communities in ecology	Ch 34
16	29 April (Wed)	Final Exam* 1:00- 3:20 <i>*Comprehensive:</i> <i>50% from the topics covered before exam 4</i> <i>50% from the topics covered after exam 4</i>	

Grading and Evaluation

Exams will be given in class on the days indicated above. The instructor reserves the right to change the material and date of exams if necessary, and will inform students in advance.

	Possible points
Exam I	100
Exam II	100
Exam III	100
Exam IV	100
5 Quizzes (best 5 of 8 quizzes; 10 pt each)	50
Final	<u>150</u>
Total:	600

Everyone must take the **Final Exam**. If you cannot take the final exam on the scheduled date for any valid reason (severe illness, death in the family, etc.), then you must contact me directly (*not* by e-mail) **before** the exam to make alternative arrangements.

There will be NO MAKE-UP EXAMS given for any reason.

Final Course Grade: Total possible points = 600 points

Total Points Earned	% of Possible 600 Points	Final Grade
540-600	90-100	A
480-539	80.0-89.9	B
420-479	70.0-79.9	C
360-419	60.0-69.9	D
0-359	<60	F

Attendance Policy, Classroom Etiquette & Guidelines

- Please arrive to class on time.
- Please do not talk during class.
- Attendance is your responsibility. If you miss class, you are still responsible for all material covered.
- No make-up exams or quizzes will be given.

- Absence for sanctioned university events (athletics, forensics, etc.) must be reported to me in advance.

***A note on attendance:** I strongly encourage you to attend EVERY class! Don't rely on your Blackboard notes to learn all the information that you will need to do well in the course. They are provided only as a *supplement*. There may be material that I cover in class that will not necessarily be in your Blackboard notes. Plus, you miss out on the opportunity to ask questions. You are expected to prepare for (complete any assignment made and/or reading assigned information in the textbook) and to attend all scheduled class sessions. Classes will begin **promptly** at on the hour (1:00 pm). The classroom door may be locked and unannounced quizzes will be given at that time. If you arrive late (after 1:00pm), you are to wait outside the classroom until the quiz is completed. If you are late and there is no quiz in progress, you are expected to enter the classroom very quietly and take the first seat available. I encourage you to arrive at the classroom early so as to have time to socialize with your classmates and to prepare yourself to be ready and available for the lecture activity which will follow. I accept the responsibility for creating and maintaining the learning environment for the class. In this role I expect any talking by students, once the lecture has begun, to be part of the discussion of subject matter being presented. Side conversations with classmates will not be tolerated and those engaging in such activity will be asked or ordered to leave the classroom. Such disturbances of the learning process may lead to disciplinary action including being involuntarily dropped from the Course.

I am available to you or a group of you during my office hours or other times by appointment. Feel free to drop into my office anytime the door is open for a friendly chat.

Academic Dishonesty

You are expected to be honest and ethical in your academic work. Academic dishonesty is subject to the disciplinary process outlined in the CSU-Pueblo Student Conduct Regulations. Academic dishonesty is defined as an intentional act of deception in one of the following areas:

- Cheating – use or attempted use of unauthorized materials, information or study aids.
- Fabrication – falsification or invention of any information.
- Assisting – helping another commit an act of academic dishonesty.
- Tampering – altering or interfering with evaluation instruments and documents.
- Plagiarism – representing the works or ideas of another person as one's own.

Accommodations:

This University abides by the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, which stipulates that no student shall be denied the benefits of an education "solely by reason of a handicap." If you have a documented disability that may impact your work in this class and for which you may require accommodations, please see the Disability Resource Coordinator as soon as possible to arrange accommodations. In order to receive accommodations, you must be registered with and provide documentation of your disability to: the Disability Resource Office, which is located in the Psychology Building, Suite 232.

What Your Students Need to Know To Access Your Class' Blackboard Course Management Area

Every CSU-Pueblo student has access to Blackboard.

Blackboard's top-level entry is usable as a personal organizer and includes

- Reminders of important dates, including your own
- Institutional announcements
- Address book
- Task lists

Every instructor individually decides whether or not to use Blackboard as an on-line supplemental teaching and learning aid for the class. A class will not be listed on the student's account until the instructor has enabled it for access.

You may access Blackboard from <http://www.colostate-pueblo.edu> by clicking on the [TWOLF Student Portal](#) link (also found at <http://www.colostate-pueblo.edu/info/students.html>), and then click on the [Blackboard](#) link (also found at <http://blackboard.colostate-pueblo.edu>) at the top center of the Portal page.

- ❖ Login Username is your user id for CSU-Pueblo e-mail access, typed in ***without*** the associated "@colostate-pueblo.edu". You must have an assigned CSU-Pueblo e-mail address to log into Blackboard. All enrolled students are automatically assigned CSU-Pueblo e-mail accounts upon enrollment.
- ❖ Login Password is your numerical birth date typed as \$tmmdd19yy (example: \$t11121935).
 - ***You should call the HELP DESK at x-2002 to obtain your user i.d. and password if you do not know it, or if you have problems logging in.***
- ***You should change your Login Password on first login.*** The password can be changed by following the path: My Institution/Tools/Personal Information/Change Password. Revise the password and submit it.
- ***You should change your default e-mail address*** to your preferred e-mail account. This can be done by accessing: **My Institution/Tools/Personal Information/Edit Personal Information**, and then going to 1. Personal Information E-mail. Change the e-mail address and submit the change at bottom of page.
- A Student Manual to Blackboard 6 is available in Blackboard under the "Tools" button. Note that the manual is lengthy, so the student may choose to just print out the pages that are immediately needed.