

**General Biology II – CAHS 102/CAHS 102L – Spring 2007
CRN 40014**

**Lecture: Wednesdays 9:35-12:15, Room C01 / Lab: Mondays 1:00-3:00, Room C10
Syllabus & Schedule**

Instructor: Dr. Carol Z. Plautz
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Course Description: This is semester two of a two-semester general biology course which, with CAHS 101, satisfies the general studies science requirement. This is an integrated lecture and laboratory course dealing with both plants and animals, related to our environment from molecule to biosphere. This course focuses on plant and animal structure and function, the dynamics of populations, communities and ecosystems, and human impact on the biosphere.

Course Objectives: Students should be able to understand and display knowledge of:

1. Basic biological & scientific principles
2. The cellular and molecular organization of living organisms
3. The unifying themes among living organisms, and an appreciation of the variety and diversity of life on earth
4. The anatomy, physiology, genetics and evolution of different types of organisms
5. Laboratory techniques to foster investigation of topics covered

Required Textbook: Biology: Concepts & Connections, Fifth Edition (Campbell, Reece, Taylor, Simon), 2006, Benjamin Cummings. ISBN: 0-8053-7160-5

Required Laboratory Supplies: One 3-ring binder; loose-leaf and/or graph paper

Program Assessment: The faculty members of Blue Ridge CTC are dedicated to assuring that each student meets the educational objectives of the program. The educational objectives have been developed and are planned to assure that the program is producing graduates who will be successful in obtaining and maintaining positions in the entry-level business field and who will be quality employees. To achieve this goal, the faculty is committed to a systematic and comprehensive process of assessment of student learning. As part of this program assessment, students will from time to time asked to participate in non-graded assessment activities which may include, but are not be limited to, participation in role-playing simulations and completion of standardized written or practical examinations or pre and post graduation surveys.

Academic Integrity: Cheating in all its forms, including plagiarism and cheating on visual work, is considered an academic matter to be controlled and acted upon by the instructor of this course. Students guilty of academic dishonesty on any graded assignments in this course will be penalized with a grade of F in the course. Such action shall be taken by the instructor, with written notification to the Dean of Academic Instruction at Blue Ridge CTC. Students involved in facilitating academic dishonesty among others, such as the unauthorized dissemination of examination materials, will be subject to disciplinary action as well.

Other Policies:

* All students are expected to attend class each and every session. If you must miss a class due to serious illness or other dire circumstances, contact Dr. Plautz ASAP to arrange for makeup. If you have missed a Quiz, and that Quiz has been handed back before you have made it up, you MAY NOT make it up.

* Students are expected to READ the assigned chapter material prior to and/or after the corresponding lecture. The book has an easy narrative style and will greatly enhance your comprehension of and comfort level with the material.

* We follow Blue Ridge CTC's inclement weather decisions (that means that if the college is open, class will be held). CTC communicates closures due to weather through several means: NBC-25 TV, several local radio stations, announcement on the CTC website (www.blueridgectc.edu), and announcement on the CTC main phone number (304-260-4380).

* Please turn off all cell phones/pagers before class begins.

The last day to withdraw from this course is **April 13, 2007**.

Grading:

3 lecture quizzes-----	10% of final grade	A: 90-100 average
2 lecture tests -----	20% of final grade	B: 80-89 average
2 "biology in the news" reports -----	10% of final grade	C: 70-79 average
6 lab reports-----	30% of final grade	D: 60-69 average
3 lab quizzes -----	10% of final grade	F: 59 average or lower
final exam -----	20% of final grade	

"Biology in the News" Reports:

These reports, one due by 3/7/07 and the second due by 5/2/07, should be of the following composition:

- News article cut or photocopied from Newspaper or Magazine or printed from the Internet, having relevance to Biology or a Biological Issue. Cite the source.
- Topic of the article may be a topic we have covered in class, or anything related (health/medicine, ecology, biodiversity, pollution, nutrition, genetic engineering, etc.).
- Attach a 2-page report addressing the scientific validity of the article (Reliable source?

Appropriate controls used? Appropriate sample size?) and discussing the nature of the research in question (Observational or hypothesis-driven? Study funded by a company with economic gain at stake?). State how one could follow-up and learn more scientifically valid information about this topic.

Approximate Lecture Schedule - Wednesdays

<u>Date</u>	<u>Chapter</u>	<u>Lecture Topic(s)</u>
1/17	20	Introduction to Animals
1/24	21	Nutrition & Digestion
1/31	22-23	QUIZ; Gas Exchange & Circulation
2/7	24	Immune System
2/14	25-26	Homeostasis
2/21	27	QUIZ; Reproduction & Development
2/28	28	Nervous System
3/7	29	TEST; The Senses
3/14	30	Animal Movement
3/21	31	Plant Structure & Function
3/28	--	NO CLASS – Spring Break
4/4	32-33	QUIZ; Plant Nutrition & Control Systems
4/11	34	The Biosphere
4/18	35	TEST; Animal Behavior
4/25	36-37	Population Dynamics; Comm. & Ecosys.
5/2	38	Conservation Biology
5/9		9:35am – Final Exam

Approximate Lab Schedule - Mondays

Date	Lab Activity
1/22	Microscopy of animal tissues
1/29	Food Digestion
2/5	Respiration
2/12	QUIZ; Cardiovasc. & Antibodies
2/19	Kidney/liver/endocrine func.
2/26	Fertilization & Development
3/5	Brain, Reflexes, Special Senses
3/12	QUIZ; Skeletal/muscular func.
3/19	Microscopy of plant structure
3/26	(SPRING BREAK – No Lab)
4/2	Plant nutrient requirements
4/9	QUIZ; Plant Taxonomy
4/16	Foraging behavior
4/23	(No Lab)
4/30	Field succession & sampling
5/7	Review Session