

## ***General Biology II***

***BIOL 1620***

**Course Description:** Fall 2005 30164 (02) Lecture (SC 114) TR 5:00-6:20 pm

This course covers the history of life on Earth. It provides an overview of the biology of each of the kingdoms, from the simplest bacteria and protists to the more complex fungi, plants and animals. Ecology and biogeography will also be included. It is designed for science majors. Corequisite: BIOL 1625

**Textbooks:** “Biology Life on Earth” 7<sup>th</sup> ed. by Audesirk ISBN #0131618563  
“Medicine Quest” by Plotkin ISBN #0140262105  
Lecture Outline by Debra Hanson

**Contact Hours:** Instructor: Debra Hanson Open door policy.  
Office hours (SC-111): Phone: 865-8129 (local calls)  
MW 2:00-3:00 F 11:00-12:00 E-mail: [Hanson@SUU.edu](mailto:Hanson@SUU.edu)  
T 10:00-11:00, 4:00-5:00

### **Course Objectives:**

- \* Define a species and identify mechanisms of speciation.
- \* Know the eras and basic events in Earth’s history.
- \* Understand the importance of Domains Archaea and Bacteria.
- \* “Protists”: Diversity, general characteristics and environmental impact.
- \* Fungi: Diversity, means of obtaining energy, and reproduction.
- \* Plantae: Diversity, importance as producers, plant structure and function.
- \* Animalia: Diversity of both invertebrates and vertebrates.
- \* Animal physiology: Structure and function of the various organ systems.
- \* Animal behavior: Understand innate versus learned behaviors.
- \* Know the basic population growth curves and apply this to humans.
- \* Identify the types of community interactions between species.
- \* Outline the pathways of energy and nutrients through ecosystems.
- \* Explain how latitude affects the temperature and precipitation in various biomes.
- \* Describe the cause and effect of acid rain, global warming, and ozone depletion.

### **Academic integrity policy:**

Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

Students are expected to attend all class lectures and to treat others with respect. This class should reflect a caring, safe environment for learning. Please be considerate! Be on time to class. Excessive talking or disruptive behavior will result in your removal from the class. Please see me if there is anything you are uncomfortable with.

<b>Grading:</b>	3 Unit Tests @ 100 each	300
	Comprehensive final exam	200
	“Medicine Quest” report	50
	10 Assignments @ 10 ea.	<u>100</u>
		650

Assignments will be short answer questions based on the previous chapter. You are responsible for printing the assignments from WebCT. Assignments must be done individually. The due date is posted on the syllabus. A 10% reduction in score will apply for each calendar day they are late (deduction period begins the same day they are due). Assignments will not be accepted during finals week. Unit tests are not comprehensive. Bring a scantron for the multiple choice questions. Practice questions can be found on the web site. Use the lecture notes to help you focus your efforts. Listening closely during lecture and reading each chapter prior to class will enhance your understanding of the material and help you stay current. Exams can be made up only in extreme circumstances. Please contact me if you will be missing class. Feel free to ask questions at any time. I am here to help. ☺

**ADA Statement:**

Students with medical, psychological, learning or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD), in Room 205C of the Sharwan Smith Center or phone (435) 865-8022. SSD determines eligibility for and authorizes the provision of services.

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**Tentative Fall 2005 Schedule: BIO 1620**

Wk	Date	Tuesday	Thursday	Text
1	8/30	Species	History of life	16
2	9/6	History of life	*A1/ Systematics	17
3	9/13	Viruses	*A2/ Bacteria	18
4	9/20	Protists	<b>TEST 1</b>	19
5	9/27	Fungi	*A3/ Fungi	20
6	10/4	Plants	*A4/ Plants	21
7	10/11	Physiology	*A5/ Physiology	Unit 5
8	10/18	<b>TEST 2</b>	Invertebrates	22
9	10/25	Invertebrates	*A6/ Invertebrates	22
10	11/1	Invertebrates	*A7/ Vertebrates	23
11	11/8	Vertebrates	*A8/ Vertebrates	23
12	11/15	<b>TEST 3</b>	Behavior	38
13	11/22	Populations	-----	39
14	11/29	Populations	*A9/ Community	40
15	12/6	Ecosystems	*A10/ Biomes	41,42
16		<b>COMPREHENSIVE FINAL EXAM</b> <b>(Tuesday, December 13 at 5-6:20 pm)</b>		

\*A = Assignment due date (Thursday)

Note: Information in this syllabus is subject to change as deemed appropriate by the instructor.