

**Bio 121 Biological Science** (4 credits)

Fall 2007 Instructor: Dr. J. Yates Science Building Rm 205  
(Lecture **MWF 9:00** Rm 327) (Lab **Tu 9:25, Th 9:25, Th 1:40**, Rm 108)  
Office Hours: Posted (and by appointment)

**Text:** Biology 7<sup>th</sup> Ed. (Raven, Johnson, Losos & Singer)

**Lab Manual:** Bio 101 Lab Manual 4<sup>th</sup> Ed. (Jackson & Yates)

**Supplies Required for Lecture:** at least 7 Scantron Sheets (882-E) (in Bookstore), #2 pencil

**Organization of the Course:** The course is divided into several parts. A list of the chapters to be covered is given below (this is a tentative listing and may change slightly). Students are expected to read the appropriate chapter before it is covered in lecture.

**Goals and Student Learning Objectives:** The goal of this course is to introduce students to the underlying principles governing the science of Biology. Special emphasis will be placed on the basic processes and components of cells in living organisms. The following topics will be covered:

- |   |                                       |
|---|---------------------------------------|
| 1. The chemistry of organisms                         | 2. The molecules found in cells       |
| 3. How life evolved on earth                          | 4. The structure of cells             |
| 5. How things get in & out of cells                   | 6. How cells convert food into energy |
| 7. How sunlight is converted into energy              | 8. How cells reproduce                |
| 9. How traits are passed on from parents to offspring | 10. The structure of DNA              |
| 11. How DNA is copied                                 | 12. How genes function                |
| 13. How genes are controlled                          | 14. How genes change                  |
| 15. How genes affect large numbers of organisms       | 16. How traits change                 |

**Grading policy:**

Lecture (75% of total grade)		
6 lecture quizzes	120 points each	(see below for quiz dates)
Final exam	180 points	
Lab (25% of total grade)		
6 lab quizzes	20 points each	
6 lab write-ups	30 points each	
<b>Total = 1200</b>		

To successfully complete this course the student must demonstrate an understanding of cellular processes and components, and the interactions that occur between them. It is expected that students receiving a satisfactory grade on the quizzes, final exam, and lab assignments will have mastered the topics described above and have a good basic understanding of biological systems at the cellular level.

**Assessment of Students:** A (1200 – 1050), B+ (1049 – 900), B (899 – 800), C+ (799 – 700), C (699 – 600)  
D+ (599 – 550), D (549 – 500), F (less than 500)

**Statement to Disabled Students:** If you have a physical, psychological and/or learning disability which might affect your performance in this class, please contact the Office of Disability Services 126A B&E (803) 641-3609 as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

<b>Reading Assignments and Testing Schedule</b> (Tentative)					
1.1, 1.2, 1.4	Chapter 5	Chapter 9	Chapter 13	Chapter 17	<b>Quiz dates</b>
Chapter 2	Chapter 6	10.1, 10.3, 10.4	Chapter 14	Chapter 18	<b>9/7 9/21 10/5</b>
Chapter 3	Chapter 8	Chapter 11	Chapter 15		<b>10/19 11/2</b>
Chapter 4		Chapter 12		<b>Final Exam 12/12</b>	<b>11/16</b>