

## Syllabus - CELL 101-02 General Biology Fall 2007 – Tulane University

**Time/place:** TR 11:00AM -12:15PM  
Richardson 117 (RICH 117)

**Instructor:** Meenakshi Vijayaraghavan (Percival Stern Hall Room # 4006)  
504-862-3154; [mviji@tulane.edu](mailto:mviji@tulane.edu)

**Office hours:** Tuesdays and Fridays – 12:30 -2:00PM or by appointment

**Textbook:** *Biology Customized for Tulane University* (1st ed.) by Robert J. Brooker, Eric P. Widmaier, Linda E. Graham, Peter D. Stiling; Published by McGraw Hill

<b>Grading:</b>	Three midterm examinations at 15% each	45%
	Comprehensive final examination	55%
	Final grade	<hr/> 100%

**Final Grade:** Final grade will be based on the performance of the student versus that of the class as a whole. Class attendance, participation and homework performance will be used to determine the borderline grades. **Extra credit work will not be assigned.**

### ***Attendance, Reading and Homework***

Lectures will be delivered in PowerPoint presentation format. These slides will be available before class through Blackboard. There is a feeling that the availability of PowerPoint slides on Blackboard makes it rather easy to skip lectures. However, skipping class is not advisable. It is extremely important that you attend class. You will be tested on material taught in the lectures. Suggested readings from Raven and Johnson are given in the class schedule. **Students who miss a lot of classes almost always get a bad grade.** Attendance will be taken on most days; if you miss too many classes (>3) your grade will be reduced one level (E.g. A to A-) as will be the case when you use cell phones to receive or send voice or text messages. Tardiness in class is not tolerated as is leaving early during the lecture. If you must leave early please avail permission and seat yourself at the back of class, so you can leave without disturbing the class. At the discretion of the instructor, homework sheets will be posted on the Blackboard for a scheduled time and the number of homework assignments completed as well as the performance in these assignments will be taken into consideration while giving the final grades. Syllabus and class schedule are posted on the Blackboard website – <http://mytulane.blackboard.com>. The tentative lecture topics and assigned textbook readings are given below.

**Tentative Class Schedule – TR (11.00 AM - 12:15 PM)**

<b>Date</b>	<b>Topic</b>	<b>Reading</b>
<b>August</b>		
30	An Introduction to Biology	Chapter 1
<b>September</b>		
4	The Chemical Basis of Life I	Chapter 2
6	The Chemical Basis of Life II	Chapter 3
11	General Features of Cells	Chapter 4
13	Membrane Structure and Transport	Chapter 5
18	Systems Biology of Cell Organization	Chapter 6
20	Enzymes, Metabolism and Cellular Respiration	Chapter 7
<b>25</b>	<b>EXAM - I</b>	
27	Enzymes, Metabolism and Cellular Respiration	Chapter 7
<b>October</b>		
2	Photosynthesis	Chapter 8
4	Photosynthesis	Chapter 8
9	Cell Communication and Regulation of the Cell Cycle	Chapter 9
11	Multicellularity	Chapter 10
16	Eukaryotic Chromosomes, Mitosis and Meiosis	Chapter 15
18	Eukaryotic Chromosomes, Mitosis and Meiosis	Chapter 15
<b>23</b>	<b>EXAM - II</b>	
25	Simple Patterns of Inheritance	Chapter 16
30	Complex Patterns of Inheritance	Chapter 17
<b>November</b>		
1	Video – Decoding the Ocean	
6	Genetics of Bacteria and Viruses	Chapter 18
8	Nucleic Acid Structure and DNA Replication	Chapter 11
13	Gene Expression at the Molecular Level	Chapter 12
<b>15</b>	<b>Exam - III</b>	
20	Gene Regulation	Chapter 13
<b>22</b>	<b>Thanksgiving</b>	
27	Mutation, DNA Repair and Cancer	Chapter 14
29	Mutation, DNA Repair and Cancer	Chapter 14
<b>December</b>		
4	Broad outline of Developmental Genetics and Gene Technology	Chapters 19, 20
<b>6</b>	<b>Review</b>	
<b>13</b>	<b>Final Exam – 8AM - Noon</b>	

***Missed Exam:***

All exams are expected to be taken at the scheduled date and time. Score in a **missed exam** will be recorded as **zero**. In the event of failure to take the exam, make up exam will be permitted **only** if there is a **valid excuse** and if there is **prior approval** from the **Instructor**. Failure to do so will require the student to give a written excuse after which he/she **may** be allowed to make up. Make up exam will **not** be in the multiple choice format. Short definitions, fill in the blanks and essays will be used. The final exam must be taken at the assigned time (**Dec. 13<sup>th</sup>, 8:00 AM - 12:00 PM**). Any make up of the final exam requires a written excuse to be submitted to and approved by the **Dean**.

***Tulane Honor Code:***

Students are expected to adhere to the principles of the Tulane Honor Code at all times. Any violations of this code will not be tolerated.