

## BIOL 6500: Cell Biology (Fall 2011)

### 1. Course Information

- Course number and section: BIOL 6500 A or B
- Course name: Cell Biology
- Hours of credit: 4
- Pre requisites or co requisites as listed in university catalogue: Admission into the graduate program or permission of the instructor.
- Classroom location and room number: BC 2022 (for the lecture, MWF 8:00 am – 8:50 am), BC 2071 (for the lab, R 8:30 am – 11:20 am (section A), 12:30 pm – 3:20 pm (section B))
- Department, College, University: Department of Biology, College of Arts and Sciences, Valdosta State University

### 2. Instructor Information

- Course description as printed in university catalogue: The organization and function cellular structures in animal, *Essential Cell Biology, 3rd Edition* by Bruce Alberts et al. from Garland Science. (ISBN 13: 978 0815341291)
- Required out of class activities: In addition to attending the lectures you need to  
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Read your notebook (very important).

- J Read the textbook (3.5m x 4w/m x 5d/w = 70 days and the textbook size is about 700 pages. That means 10 pages per day reading is necessary

3. To produce a systematic and thoroughly researched thesis suitable for publication and appropriate to the thesis sub discipline.

- Course objectives or outcomes:
  - Ø Describe basic terminology in cell biology.
  - Ø Describe the underlying physical and chemical principles in cell biology.
  - Ø Demonstrate an understanding of basic experimental techniques in cell biology.
  - Ø Demonstrate competency for the cell biology part in standard tests such as GRE, MCAT.
  - Ø Demonstrate literature analysis capability.

5. Assignments (explicitly aligned with the goals, objectives, or outcomes)

- General description of the assignments: You need to read the textbook before and after the lecture. Also doing the exercise questions should enhance your understanding of the subject.
- Policies for missed assignments, make up assignments, late assignments, and/or extra credit: There will be no extra credit in this course.

6. Assessment or Evaluation Policy

- Explanation of how grades are assigned: Grading will be based on the scores you get from the tests.  
 Class points (CP) = ( Test i score + Final Test score + Lab Test + Term Paper)/9, where i is I to IV.  
 The maximum score of the Test i is 100, where i is I to IV. The maximum score of the final is 200. The maximum score of Lab Test is 200 (= 12 quizzes of 10 points each and 80 points of the lab final). The maximum score of the term paper is 100.  
 If CP >= 90% then A for the final grade, if CP >= 80% then B, if CP >= 70% then C, if CP >= 60% then D and anything below will be F.
- Grading standards: You may get partial credit for answers that show logical developments but fail to derive the correct answers due to operational errors.

Record your scores in the table.

Exam	I	II	III	IV	Final	Sum 1
Score						

Lab	Q1	Q2	Q3	Q4	Q5	Q6	Q7
Score							
Lab	Q8	Q9	Q10	Q11	Q12	Final	Sum 2
Score							

Your score = (Sum 1 + Sum 2 + Term Paper Score)/9

7. Schedule of Activities or Assignments, including university scheduled final exam time (all schedule is tentative and may be subject to change)

Date	Class	Date	Lab
8/15	Introduction to Cells	8/18	Basic Lab Mathematics (log, exponential)
8/17-19	Chemical Components of Cells	8/25	Basic Lab Tech (pipeting, solution) Q1
8/22-24	Energy, Catalysis, and Biosynthesis	9/1	Enzyme Microarrays Q2
8/26-29	Protein Structure and Function	9/8	Introduction to ELISA Reactions Q3
8/31	DNA and Chromosomes	#	8/22 #

## 8. Classroom Policies

- Attendance and tardiness: Any absence policy should conform to the university policy.  
University Attendance Policy from the VSU catalogue:  
*"The University*