COURSE: Introductory Cell Biology, BIOL 2440.09, Fall 2013

Note: Students must be enrolled in a lab section, along with the lecture.

INSTRUCTOR: Dr. Joan Hudson

Office: Rm 129 - Lee Drain Building, jhudson@shsu.edu, (936) - 294-1541

Office Hours: Available MF: 8:30-11:30 or by appointment, or anytime I am online.

TEXT: Essential Cell Biology by Bruce Alberts, D. Bray, K. Hopkins, A. Johnson, J. Lewis, M. Raff, K. Roberts and P. Walter. 2010. 3rd ed. Garland Science. It will be to your advantage to have the figures from the book when watching the lecture videos.

COURSE OBJECTIVES: The objective of this course is to provide a broad overview of cell biology for biology and other science majors. The student will: 1) better understand how biological organisms function, 2) learn about the four groups of macromolecules present in all life forms, 3) learn protein structure, function, and synthesis 4) learn nucleic acid chemistry, DNA replication and inheritance, 5) learn cell structure and reproduction, 6) learn organelle structure and function, 7) learn membrane structure, function, and transport, 8) learn how cells transform energy and 9) be better able to evaluate scientific studies in cell biology. After taking this course, the student should have a better understanding of cell structure, chemistry and function and be able to use this information in upper level biology classes.

GRADING: Four HOURLY exams (100 points each). The fourth exam is the final exam. Lab is 100 points. Total points in this class = 500 points. **There are no extra credit points or activities for extra credit.**

Final grade determination:

A = 90% - 100% (450-500 points)

C = 70% - 79% (350-399 points)

B = 80% - 89% (400-449 points)

D = 60% - 69% (300-349 points)

EXAMS: The exams will have 50 multiple choice questions (using Scantron 882). Questions will come from lecture notes, lab, and your book. Revising your lecture notes is highly recommended.

There are no extra credit points.

Exams will be given on the designated dates in Rm 214 in the Lee Drain Building at 8:00 am.

MAKE-UP POLICY: Lecture exams can be taken at a different time if you have a class at 8 am on TTh or you only come to campus on MWF. An alternative time must be approved by Dr.Hudson ahead of time. If the exam is not taken at the scheduled time and no arrangements were made, a completely essay exam will be given as a make-up exam. There are no exceptions. (To avoid taking an essay exam, take the exam during the regularly scheduled time or make prior arrangements)

ACADEMIC DISHONESTY: The Student Code and Faculty Handbook will be followed in the event of academic dishonesty. Any form of cheating will not be tolerated.

LAB: Lab exercises will be completed and submitted for a total of 100 points. No labs will be dropped. Failure to turn in even one lab, may seriously impact your final grade in this class. Labs must be submitted on or before the due date. Lab materials will not be accepted after the due date. You will need a scanner and video recorder. Lab exercises will be assigned each Friday and will be due the following Friday at 5:00 pm. Lab exercises will not be accepted after the deadline.

STUDENTS WITH DISABILITIES: Students with any type of disability that may prevent them from fully demonstrating their abilities in this class should contact me as soon as possible. We can work together to come up with a plan to assist you with this course.

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Week of:	LECTURE	READING
28 August	Introduction, Intro. to Cells	Chapter 1
2 September	Intro. to Cells cont., Chem. Component	ts of Cells Chapters 1, 2
9 September	Chemical Components of Cells cont.	Chapter 2
16 September	Energy, Catalysis, and Biosynthesis	Chapter 3
EXAM 1 - 25 September	Tuesday, 24 September 2013 - covering w Protein Structure and Function	veeks 1-4 Chapter 4
30 September	Membrane Structure	Chapter 11
7 October	Membrane Transport	Chapter 12
14 October	How Cells Obtain Energy from Food	Chapter 13
EXAM 2 - 23 October	Tuesday, 22 October, 2013 - covering Energy Generation in Mitochondria and	
28 October	Energy Generation in Mitochondria and	d Chloroplasts cont.
4 November	DNA, DNA Replication, Repair and Re	ecombination Chapters 5,6
11 November	From DNA to Protein: How Cells Read	d the Genome Chapters 7, 8
EXAM 3 - 20 November	Tuesday, 19 November, 2013 - covering The Cell Division Cycle	weeks 9-12 Chapter 18
25 November	The Cell Division Cycle	Chapter 18
2 December	Sex and Genetics	Chapter 19
	2 September 9 September 16 September EXAM 1 - 25 September 30 September 7 October 14 October EXAM 2 - 23 October 28 October 4 November 11 November EXAM 3 - 20 November 25 November	28 August Introduction, Intro. to Cells 2 September Intro. to Cells cont., Chem. Component 9 September Chemical Components of Cells cont. 16 September Energy, Catalysis, and Biosynthesis EXAM 1 - Tuesday, 24 September 2013 - covering was 25 September Protein Structure and Function 30 September Membrane Structure 7 October Membrane Transport 14 October How Cells Obtain Energy from Food EXAM 2 - Tuesday, 22 October, 2013 - covering 23 October Energy Generation in Mitochondria and 28 October Energy Generation in Mitochondria and 4 November DNA, DNA Replication, Repair and Results of the Cell Division Cycle EXAM 3 - Tuesday, 19 November, 2013 - covering The Cell Division Cycle The Cell Division Cycle

FINAL EXAM - EXAM 4 - Thursday, 12 December, 2013 at 8:00 a.m.

Recommendation: Read, Read, Read!!! Study, Study, Study!!