

## BSC 360 Cellular Physiology, Fall 2006

**Instructor:** Dr. Jennifer Walker

**Office:** SSC 131-A

**Office Hours:** Tuesday and Thursday 1:00-2:30 PM or by appointment

**Phone:** 228-214-3332

**e-mail:** jennifer.walker@usm.edu

**Time & Place:** Tuesday and Thursdays, 11:00 AM -12:15 PM in EAGLE 103

**Text:** Alberts, B. et al. 2004. Essential Cell Biology. 2<sup>nd</sup> ed. Garland Science, Taylor & Francis Group. New York.

### **Course Objectives:**

To provide students with a general understanding of cellular biology.

### **Expectations:**

Attendance is mandatory. Four unexcused absences will result in the reduction of your final grade.

Class begins promptly at 11:00 AM. Tardiness demonstrates a lack of respect for the instructor and your fellow classmates. If there are circumstances that will prevent you from attending the class on time, please contact the instructor.

Cell phones, pagers, and all other electronic devices should be turned off when you enter the room. Should you forget to do this and one of these items goes off, you will only be allowed to turn it off without responding. This shows common courtesy and respect for the instructor and your classmates. If repeated offenses occur, these items will be excluded from entering the classroom. If an emergency requires that you **MUST** have one of these items on during class, you are obligated to inform the instructor and make appropriate arrangements.

### **Grading Policies:**

There will be 4 examinations as indicated on your schedule. Each exam will count 100 points.

A	90–100%	360-400 points
B	80-89%	320-359 points
C	70-79%	280-319 points
D	60-69%	240-279 points
F	<60%	<240 points

Make up exams will only be given to students who miss an exam due to extenuating circumstances (illness, death in the family, etc.). Proof of these circumstances should be documented to the best of your ability and provided to the instructor. **It is your responsibility to contact the instructor within one week of the missed exam to schedule a time for the make up. If you do not do this, the instructor is not obligated to provide you with a make-up exam.** Make-up exams will not be the same as the original exam.

Extra credit is not typically offered. Any time that you would devote to extra credit is time that could be devoted to the actual course work.

**Late assignments will not be accepted without proof of a legitimate excuse.**

### **Academic integrity:**

Each student is expected to abide by the University of Southern Mississippi Student Handbook and the Code of conduct outlined therein. Any type of collaboration on assignments or exams other than those explicitly outlined by the instructor may result in the assignment of a failing grade for that particular activity and/or disciplinary action by the university. **Plagiarism will not be tolerated.** If you are unsure of any stipulations within the USM Code of Student Conduct (including plagiarism) you may find a copy of the student handbook on-line at <http://www.usm.edu/union/studenthandbook.pdf>.

This is a tentative schedule and the instructor reserves the right to make changes as necessary. Exam dates should be viewed as firm while topics covered may be more flexible.

DATE	TOPIC	CHAPTERS
August 24	Introduction to Cells	Ch 1
August 29	Chemical Components of Cells	Ch 2
August 31	Energy, Catalysis, and Biosynthesis	Ch 3
September 5	Protein Structure and Function	Ch 4
September 7	Protein Structure and Function	Ch 4
September 12	DNA and Chromosomes	Ch 5
September 14	DNA replication, Repair and Recombination	Ch 6
September 19	<b>EXAMINATION 1</b>	
September 21	DNA to Protein	Ch 7
September 26	Control of Gene Expression	Ch 8
September 28	Paper discussion	Primary literature to be assigned at a later date.
October 3	Gene and Genome Evolution	Ch 9
October 5	Manipulating Genes and Cells	Ch 10
October 10	Membrane Structure	CH 11
October 12	<b>EXAMINATION 2</b>	
October 17	Membrane Transport	Ch 12
October 19	<b>No class – Fall Break</b>	
October 24	Membrane Transport	Ch 12
October 26	Energy from Food	Ch 13
October 31	Mitochondria and Chloroplasts	Ch 14
November 2	Mitochondria and Chloroplasts	Ch 14
November 7	Organelles and Transport	Ch 15
November 9	Cell Communication	Ch 16
November 14	<b>EXAMINATION 3</b>	
November 16	Cytoskeleton	Ch 17
November 21	Cell Cycle and Cell Death	Ch 18

November 23	<b>No class – Thanksgiving Holiday</b>	
November 28	Cell Division	Ch 19
November 30	Molecular basis of Heredity	Ch 20
December 5	Tissues and Cancer	Ch 21

Last day to drop without academic penalty – Wednesday, October 4, 2006

**FINAL EXAM: December 11, 2006 from 11:00 AM -1:30 PM**

**This exam begins promptly at 11:00 AM. You have 2 ½ hours allotted for the exam and EVERYONE will begin the exam at the same time. If you have a conflict with this time, you MUST notify the instructor one week in advance and have an appropriate excuse to schedule a make-up exam. Make-up exams will not be the same as the original exam.**

**Accommodation for students with special needs:** If a student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA if they are not certain whether a medical condition/disability qualifies. Address: The University of Southern Mississippi on the Gulf Coast Office of Disability Accommodations, 730 East Beach Boulevard, Long Beach, MS 35960. Voice telephone or TTY: (228) 214 3232 or (601) 226-6035, Fax: (601) 266-6035. Individuals with hearing impairments can contact ODA using the Mississippi Relay Service at 1-800-582-2233 (TTY) or e-mail Suzy Herbert at [suzanne.herbert@usm.edu](mailto:suzanne.herbert@usm.edu).

