

Biology 408
Cellular Physiology
Spring, 2000

Instructor: Dr. Ann M. Findley
Office: CNSB 327
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Office Hours: As posted, or by appointment

Objectives: To present a detailed introduction to the physical/chemical aspects of the living organism including a discussion of molecular cell biology.

Textbook: *ESSENTIAL CELL BIOLOGY: An Introduction to the Molecular Biology of the Cell*, B. Alberts, D. Bray, A. Johnson, J. Lewis, M. Raff, K. Roberts and P. Walter, Garland Publishing, Inc., NY, 1998.

Computer-Based Support: The CNSB 220 computer facility will be made available to students enrolled in this course to provide access to computer-driven tutorials. In addition, a detailed outline/summary of each lecture will be available online at the ULM library website (electronic reserves services). Students unfamiliar with this system should contact the instructor for access instructions/password information.

Examinations: There will be three examinations (including the final). Each exam will be worth 100 pts, and the final may be comprehensive. Exams will consist both short answer and essay type questions. In addition to scheduled examinations, a number of group in-class/take-home activities will be assigned throughout the term.

Grading: Grades will be assigned according to the following scale:

Examinations	3 @ 100 pts	300 pts	90 – 100% = A
Other activities	5 @ 20 pts	100 pts	80 - 89% = B
	TOTAL	400 pts	70 - 79% = C
			60 - 69% = D
			0 - 59% = F

Attendance: Attendance regulations, as per the current university catalogue, will be followed. Attendance records will be kept for each lecture period of this course. It is the student's responsibility to obtain material presented during any missed lectures.

Topics to be covered: Chemical components of cells; energy, catalysis, and biosynthesis; how cells obtain energy from food; protein structure and function; enzymology; membrane structure/membrane transport; energy generation in mitochondria and chloroplasts; cell-cell communication; cytoskeleton; cell division/control of the cell cycle