

## **Spring 2013 Syllabus BIO 4500 Cell Biology (4 credits)**

**COURSE DESCRIPTION:** Cell biology is the organization and function of cellular structures in animal, plant, and microbial systems. Emphasis on the molecular basis of metabolism, transport, mobility, nerve conduction, and the cell cycle.

**COURSE GOALS AND OBJECTIVES:** Cell biology is an important course for practically anyone who wants a career in biology, be it in medicine or research. At the end of this course you will have obtained a greater understanding (and appreciation) of cell biology. By the end of the course students will have learned:

- How organisms obtain energy
- The assembly, structure and function of proteins, DNA, RNA and membranes
- How proteins are sorted
- How cells communicate
- The structure and function of the cytoplasm

lecture is missed. If you missed the lecture and I approved your absence the total number of points possible to you will be reduced. If you missed quizzes and/or in-



