

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-class lecture assignments and I did not approve the absence a zero will be given for that particular assignment, quiz, etc.

Labs cannot be made up; therefore do not miss a lab. I also reserve the right to determine what constitutes an excused absence from lab. If you miss 2 labs (excused or unexcused) you will not be able to earn higher than a C for your final grade. If you miss 3 labs, you cannot earn higher than a D. If you miss more than 3 labs you will earn an F for the course.

CONDUCT: Arrive on time to lecture and lab. If it seems like there is a significant number of students arriving late to lecture and/or lab, I will start locking doors at 5 minutes after the scheduled start time, and the door will not be opened for any late arrivers. Turn off cell phones during lecture and lab; there is no reason you should be texting or calling anyone. Don't talk during lecture; if you don't understand something or didn't hear something ask. Unless it's an emergency (and texting does not constitute an emergency) do not get up in the middle of lecture, leave and come back. Do not to ask to get up and leave the room during an exam, unless it is an emergency.

EXAMS: There will be 4 in-class exams (excluding the cumulative final). Types of questions that may be included in the exams are fill in the blank, essay, short answer, matching, multiple choice, and multiple-multiple choice. Do not miss any in class exams. You will be able to drop the lowest regular exam grade; however the final will not be dropped.

LAB: Lab exercises will be available on Blazeview or will be handed out in class prior to the lab period. It is your responsibility to read them before coming to lab. Short quizzes will be given during the lab and will be based on the previous week's lab and the objectives of the current week's lab. The quizzes will be handed out immediately at the start of the lab and will be collected ~10 minutes later. If you arrive late you will have a shorter amount of time to finish the quiz, and if you arrive after the quiz is collected you will receive a zero (0) for that quiz. As mentioned previously, a student will not be able to make up a lab.

LAB RULES AND REGULATIONS: Use common sense when working in the lab, and if you have any questions, ask!

Bring a notebook to lab to write down your data.

