

BIO 3100 - Cellular Biochemistry (Honors)
Fall 2019

Instructor: Dr. Athar Ansari

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If you enroll in the honors section of this course, you will not be allowed to transfer to the non-honors section **after two weeks** following the start of the semester. If you are unable to complete the work for the honors section during the semester, you will be given the **grade of Incomplete** in the class. You will have one year to finish the work and change your grade from incomplete to a letter grade. Failure to complete the honors section work in the one year period will result in a change from an incomplete to an F for the course.

- Class meets 1:30 PM every Wednesday in my office.

Skills and activities: Students will learn the following skills in honors sections of the class:

- Searching the literature for pertinent information on a selected topic
- Reading of research papers and developing an understanding of the central concept of research findings
- Ability to present ideas in the form of oral and/or written presentation

Learning objectives: The learning objectives for the general and honors sections are as follows:

- A solid understanding of the chemistry of life and the central role that laws of thermodynamics play in living systems
- An understanding of the structure of biomolecules
- An understanding of the physiological function of major biomolecules
- Understanding of the concept of the structure-function relationship: how the structure of biomolecules allow them to perform their assigned cellular function
- Introduction to the metabolism of major biomolecules and the principles that govern them; integration of metabolism
- Introduction of the concept of information pathways within a cell: emphasizing the basic principles of enzymology and gene expression
- The course material should provide students with a foundation for subsequent studies in upper level disciplines in Biology

Details: You will meet me decide a topic related to Biochemistry. The topic cannot be the material I am going to cover in the class. You will do a detailed research on the topic. You are expected to meet me every week during honors hours in my office and apprise me of your progress. I will help and guide you in the right direction. Once I am satisfied with your research on the topic, you will make a PowerPoint presentation. Once I approve the presentation, you should give tye oral presentation in front of honors class on a time and date fixed by me.