douglas college Course Information

A. Division: Academic Date: September 5 1984

x B. Department: Science and Mathematics New Course:

Revision of Course Information Form: Dated:

C. BIOLOGY 421 D. Cell Biochemistry

Course No. Descriptive Title Semester Credits Subject to CC

CELL BIOCHEMISTRY 421

Subject and Course Number

Biochemistry, 2nd Ed. Armstrong, F.B. Oxford University Press. New York 1993

Complete Form with Entries Under the Following Headings:

OBJECTIVES

1. describe the chemistry of water, acid-base properties, and buffers
2. describe the chemistry of amino acids
3. explain how protein sequence is studied, and describe the structure of peptides
4. describe the structure of proteins, especially in terms of structure relates to function
5. describe what allosteric proteins are, and their importance
6. describe enzyme kinetics and

P. COURSE CONTENT

1. The course deals with the chemical basis of life. The chemical nature of the cell will be described. The importance of [illegible] molecular [illegible] in life processes will be discussed reviewing the properties of water. The dipole [illegible] intermolecular and thermal es and buffers will be reviewed. [illegible] moment, acid-base properti

[illegible]

tructure and mechanisms of action (inhibition,

4. The nomenclature, st

[illegible]

ll be introduced covering thermodynamics, 5. The topic of bioenergetics wi

[illegible] energy concepts, coupled reactions, and energy carriers. The structure and function of ATP will be described.

carbohydrate chemistry and the role of carbohydrates as an energy 6.
source will be reviewed. The structure and [illegible]