

### Course Description:

This course provides a foundation of nutritional biochemistry to help students understand the nutritional/biochemical process involved in health and disease. It covers the structure and function of macronutrients (proteins, carbohydrates, and lipids); metabolic and bioenergetic pathways; the role of nucleic acids in genetic information.

**Credits:** Four (4)

### Course Format and Modes of Instruction:

This course is a web-based class consisting of readings from the textbook, discussion activities posted on the discussion board, links to informational cites on the internet, lecture handouts, written assignments, and practice quizzes.

### Prerequisites:

NUTR3610 Inorganic Organic Chemistry or equivalent coursework transfer credits, to be determined by the BSHS CP Program Director.

### Course Goals and Objectives:

The goals for students of this course are to:

- Understand the basic concepts and underlying principles of biochemistry as applicable to the field of dietetics/nutrition.
- Build an understanding of biochemistry knowledge required for students to pursue a dietetics education and be prepared to continue course work in the program.
- Relate the learned concepts and knowledge of biochemistry to the practice of dietetics/nutrition.

In addition to teaching the topics associated with biochemistry, this class also is designed to provide students with a learning experience to promote critical thinking and written and communication skills, attributes critical to succeeding in the professional career setting.

### Course Requirements:

Requirements	Weight
Four (4) Exams (15% each)	60%
Biochemical Pathways Weekly Discussions	20%
Short Answer Homework (x 4 = 5% each)	20%