

**General, Organic and Biochemistry for Allied Health Majors
Sequence, with Lab
TCSU CHEM SEQ B**

A. Description

This is a two (or three) semester course in chemistry intended for majors in allied health and other applied sciences (e.g. agriculture, nutrition).

B. Recommended Preparation

None specified

C. Prerequisites

None specified

D. Minimum Unit Requirement

8 units, including at least 2 units of laboratory (at least 76 hours of lecture and 76 hours of laboratory)

E. Course Topics

The complete course sequence will present the basic principles of chemistry including physical and chemical changes, energetics, atomic structure, bonding, nomenclature, chemical calculations, chemical reactions (including solubility, neutralization, and oxidation-reduction,) gas laws, solutions, acids and bases, pH, equilibrium, nuclear chemistry.

The sequence will also include an introduction to the principles of organic and biological chemistry including nomenclature, functional groups, and properties of organic and biological compounds and applications of organic and biochemistry to living systems. Appropriate for students majoring in allied health and other applied sciences. The laboratory sequence will support the above topics including both qualitative and quantitative experiments, and analysis of data. The American Chemical Society (ACS) General-Organic-Biochemistry examinations provide information on topics and indicate an appropriate level of this sequence.

F. Student Learning Outcomes

The American Chemical Society (ACS) General-Organic-Biochemistry examinations provide information on topics, goals, and objectives for these courses and indicate an appropriate level for this sequence.

G. CAN Equivalent

CAN CHEM SEQ B (Equivalency ends Fall 2009)