Class Time: Thursday 4:00 pm – 6:30 pm
Class Location: Pfizer Campus

Instructor: Gerwald Jogl (Gerwald_Jogl@brown.edu)
Phone: 401 863 6123

Satisfies a core requirement for the Master of Arts Biology program

Textbook:
Biochemistry – The molecular basis of life.

Course Goals:
The overall goal of this course is to study how essential concepts of biochemistry are applied in current biomedical research. We will review core topics of biochemistry and read one or two recent research articles relevant to these topics. The in-class discussion will (a) examine the experimental approach, (b) how the results of each report fit with prior knowledge, and (c) how these findings moved the field forward.

Date   Topic
9/6     Introduction & Foundations of Biochemistry
9/13    Peptides, proteins and enzyme function
9/20    Carbohydrate metabolism
9/27    Lipid metabolism
10/4    Citric acid cycle
10/11   Oxidative phosphorylation
10/18   Exam 1
10/25   Photosynthesis and carbon fixation
11/1    Nitrogen metabolism
11/8    Integration of metabolism
11/15   Nucleic acids, DNA, RNA
11/22   Thanksgiving
11/29   Replication and transcription
12/6    Protein synthesis
12/13   Final Exam