课程代码（Coursenumber）：

C130.

课程名（Coursename）：

Biophysical Chemistry: Physical Principles and the Molecules of Life.

学分（credit) ：(4) Students will receive three units of credit for C130 after taking 120B.

课程设置（course setting）：Three hours of lecture and one hour of discussion per week.

选课要求（prerequisite）： Math 1A; Biology 1A and 1AL; Chemistry 3A or 112A; Chemistry 3B or 112B recommended.

课程描述（Description）：Thermodynamic and kinetic concepts applied to understanding the chemistry andstructure of biomolecules (proteins, DNA, and RNA). Molecular distributions, reaction kinetics, enzyme kinetics. Bioenergetics, energy transduction, and motor proteins. Electro-chemical

potential, membranes, and ion channels. Also listed as MCB C100A. (F, S)

教参信息（Textbookinfo）:

1 Biophysical Chemistry: Part I: The Conformation of Biological Macromolecules (Their Biophysical Chemistry; PT. 1) - Paperback (Mar. 15, 1980) by Charles R. Cantor and Paul R. Schimmel

ISBN-13: 978-0716711889

2 Biophysical Chemistry of Biointerfaces - Hardcover (Aug. 30, 2010) by Hiroyuki Ohshima

ISBN-13: 978-0470169353

世界各地拥有馆藏的图书馆（OCLC）:2

3 Biophysical Chemistry - Hardcover (Sept. 16, 2008) by James P. Allen

ISBN-13: 978-1405124362

世界各地拥有馆藏的图书馆（OCLC）:216