

## BIOL 6520: Molecular Biophysics (Fall 2012, CRN: 82121)

### 1. Course Information

- Course number and section: BIOL 6520 A
- Course name: Molecular Biophysics
- Hours of credit: 3
- Pre-requisites or co-requisites as listed in university catalogue: Prerequisite: Admission into the graduate program or permission of the instructor.
- Classroom location and room number: BC 222, MWF 12:00 pm - 12:50 pm
- Department, College, University: Department of Biology, College of Arts and Sciences, Valdosta State University

### 2. Instructor Information

- Instructor name: Dr. Jonghoon Kang
- Instructor contact: BC 2217, 229-333-7140, jkang@valdosta.edu
- Instructor office hours: Tue and Wed 2:00 pm - 3:00 pm

### 3. Course Description

- Course description as printed in university catalogue: Introduction to thermodynamics, kinetics, and their applications to biological systems. Students are expected to enhance their understanding of current biological literature that contains biophysical concepts covered in this course.
- Required texts, resources, and materials: 1st Edition by  
Raymond Chang from University Science Books (ISBN-13: 978-1891389337).
- Required out-of-class activities: In addition to attending the lectures you need to  
Read your notebook (very important).  
Read the textbook.  
Work on problems in the textbook and any other materials assigned in class.

### 4. Standards, Goals, Objectives, or Outcomes

- outcomes:  
The departmental educational outcomes (listed in the university catalogue).

1. To demonstrate competency in factual content and interpretation of the major biological concepts covered in this course.

- Course objectives or outcomes:

Describe basic terminology used in thermodynamics and kinetics.

Perform basic manipulations of thermodynamic and kinetic equations.

Interpret biochemical phenomena in terms of thermodynamics and kinetics.

Recognize the importance of physics and chemistry in the biological sciences.

Demonstrate literature analysis capability.

5. Assignments (explicitly aligned with the goals, objectives, or outcomes)

- General description of the assignments:



## 8. Classroom Policies

- Attendance and tardiness: Any absence policy should conform to the university policy.  
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